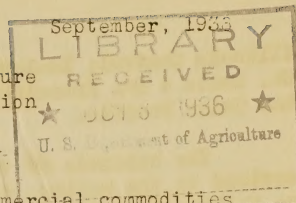


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Connecticut

United States Department of Agriculture
Agricultural Adjustment Administration

Commodity Survey Series.



Carlot railway shipments of manufactured and commercial commodities originating in the State of Connecticut and delivered to predominantly agricultural areas west of the Mississippi and south of the Potomac and Ohio Rivers, increased 44.1 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from Connecticut, together with the changes from year to year, were as follows: In year 1 the total was 20,905,000 pounds; in year 2 it was 28,593,000 pounds or a gain of 36.8 percent; in year 3 it was 30,124,000 pounds, a gain of 5.4 percent over the year 2 poundage and of 44.1 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized States east of the Mississippi and north of the Potomac and Ohio rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Connecticut and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern;

Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

The hundreds of articles produced in Connecticut and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) The "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from Connecticut in the domestic and personal group showed the greatest gain among the four groups, in the 2-year period, with an advance of 185.4 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 3,176,000 pounds in year 1, to 6,894,000 pounds in year 2, and to 9,063,000 pounds in year 3. Shipments in year 2 gained 117.1 percent over those in year 1, and shipments in year 3 gained 31.5 percent over those in year 2.

The greatest gain in any single sub-group was in confectionery, of which 1,999,000 pounds was forwarded in carlot shipments from Connecticut to agricultural areas in year 3 as compared with 37,000 pounds in year 1, and 716,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 5,302.7 percent.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

As might be expected, shipments of commodities in the agricultural group were not far behind the domestic and personal group in gaining 174.4 percent in year 3 as compared with year 1. This group showed a gain of 79.9 percent in year 2 over year 1, and a gain of 52.5 percent in year 3 as compared with year 2.

Weights of shipments amounted to 308,000 pounds in year 1, to 554,000 pounds in year 2, and to 845,000 pounds in year 3. Shipments of farm implements and machinery showed the greatest gain in the 2-year period, totaling 150,000 pounds in year 3 as compared to 30,000 pounds in year 1, a gain of 400 percent. Also important was the increase in shipments of wire and fencing which rose from 234,000 to 619,000 pounds, or 164.5 percent.

The general group containing 17 sub-groups of commodities, showed increases of 28.3 percent in year 3 as compared with year 1, 16.4 percent in year 2 over year 1, and 10.3 percent in year 3 over year 1. Weights of shipments in this group amounted to 7,470,000 pounds in year 1, to 8,238,000 pounds in year 2, and to 9,585,000 pounds in year 3. Shipments of batteries and paper and products, two of the items in this group, showed important increases. The former rose from 212,000 pounds in year 1 to 486,000 pounds in year 3, or 129.2 percent, while shipments of paper and products in the same period went from 1,424,000 to 2,422,000 pounds, a rise of 70.1 percent.

The industrial and commercial group, with 34 subdivisions, showed a gain of 6.8 percent in year 3 over year 1. In this group year 3 showed a decrease of 17.6 percent as compared to year 2, while year 2 had showed an increase of 29.7 percent over year 1. Weights of shipments in this group amounted to 9,951,000 pounds in year 1, to 12,907,000 in year 2, and to 10,631,000 pounds in year 3. Shipments of steel and iron products, which are included in this group, although 27.2 percent less in year 3 than in year 2, were 27.1 percent greater in year 3 than in year 1. Weights of steel and iron products in years 1, 2 and 3 were 1,814,000, 3,167,000, and 2,305,000 pounds respectively. Other items showing important increases were: Tools and equipment which rose from 60,000 pounds in year 1 to 357,000 pounds in year 3, or 495 percent; cables, which rose from 722,000 to 1,745,000 pounds, or 141.7 percent; and copper and brass products, which rose from 1,250,000 to 2,216,000 pounds, or 77.3 percent.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases for both year 2 and year 3.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

CONNECTICUT

Carlot shipments of manufactured and industrial commodities from Connecticut to 32 predominantly agricultural states west of the Mississippi and south of the Potomac and Ohio Rivers. Also percentage changes in such shipments for year 1, ended June 30, 1933; year 2, ended June 30, 1934; and Year 3, ended June 30, 1935.

Commodity	Year 1 (1,000 lbs)	Year 2 (1,000 lbs)	Gain Year 2 Over Year 1 (Per- cent)	Year 3 (1,000 lbs)	Gain Year 3 Over Year 2 (Per- cent)	Gain Year 3 Over Year 1 (Per- cent)
AGRICULTURAL GROUP						
Farm Implements & Machinery	30	26	-13.3	150	476.9	400.0
Brooders & Incubators	44	--	--	--	--	--
Fence Posts, Steel	--	--	--	76	--	--
Harness & Saddlery	--	278	--	--	--	--
Wire & Fencing	234	250	6.8	619	147.6	164.5
Total Agricultural Group	308	554	79.9	845	52.5	174.4
DOMESTIC AND PERSONAL GROUP						
Electric Lamps & Fixtures	24	24	0.0	--	--	--
Furniture, Mixed	138	91	-34.1	205	125.3	48.6
Refrigerators	--	--	--	160	--	--
Stoves & Heaters	169	58	-65.7	219	277.6	29.6
Bedding	36	--	--	--	--	--
Carpets & Linoleum	--	38	--	112	194.7	--
Cotton Pc. Goods & Batting	61	461	655.7	66	-85.7	8.2
Electrical Appliances	46	--	--	558	--	1,113.0
Furnaces	--	43	--	--	--	--
Woolens	39	104	166.7	60	-42.3	53.8
Clothing	88	437	396.6	--	--	--
Confectionery	37	716	1835.1	1,999	179.2	5,302.7
Sauces & Extracts	--	77	--	--	--	--
Beer	--	94	--	386	310.6	--
Liquor	--	76	--	170	123.7	--
Ginger Ale & Other Beverages	62	--	--	124	--	100.0
Arms & Ammunition	2,161	4,307	90.3	4,652	8.0	115.3
Toilet Preparations	234	273	16.7	290	6.2	23.9
Toys	81	95	17.3	62	-34.7	-23.5
Total Domestic & Personal Group	3,176	6,894	117.1	9,063	31.5	185.4

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
COMMERCIAL AND INDUSTRIAL GROUP						
Steel & Iron Products	1,814	3,167	74.6	2,305	-27.2	27.1
Boilers, Tubes, & Parts	1,239	1,680	35.6	737	-56.1	-40.5
Cables	722	831	15.1	1,745	110.0	141.7
Cotton Gins & Parts	--	37	--	20	-45.9	--
Engines(gas, steam, etc.)	377	94	-75.1	30	-68.1	-92.1
Machinery, Comm. & Ind.	3,426	3,103	-9.4	1,315	-57.6	-61.6
Machinery, Electrical	--	115	--	360	213.0	--
Machinery, Refrigeration	--	--	--	18	--	--
Machinery, Road	--	54	--	--	--	--
Machinery Parts	42	18	-57.1	25	38.9	-40.5
Tools & Equipment	60	14	-76.7	357	2,450.0	485.0
Burlap & Bagging	108	112	3.7	55	-50.9	-49.1
Bottle Caps	--	30	--	--	--	--
Cloth	31	74	138.7	--	--	--
Clothing Loops	44	60	36.4	--	--	--
Cotton	72	--	--	--	--	--
Felt & Carpeting	--	--	--	49	--	--
Glue & Sizing	--	50	--	--	--	--
Hides & Pelts	--	--	--	52	--	--
Oils, Fish & Animal	61	69	13.1	276	300.0	352.5
Oils, Vegetable	61	--	--	61	--	0.0
Tobacco	35	236	574.3	68	-71.2	94.3
Waste, Sweepings, etc.	--	25	--	25	0.0	--
Yarn	41	12	-70.7	42	250.0	2.4
Building Material	--	66	--	38	-42.4	--
Insulation	--	--	--	14	--	--
Cement & Concrete Products	--	15	--	--	--	--
Coal Tar, Pitch & Products	45	--	--	661	--	1,362.1
Lumber & Products	15	165	1000.0	--	--	--
Sand	--	417	--	--	--	--
Stone & Products	298	--	--	--	--	--
Aluminum & Products	--	116	--	--	--	--
Copper & Brass Products	1,250	2,315	85.2	2,216	-4.3	77.3
Lead & Products	210	32	-84.8	162	406.3	-22.9
Total Commercial & Industrial Group	9,951	12,907	29.7	10,631	-17.6	6.8
GENERAL GROUP						
Auto Parts & Accessories	--	70	--	164	134.3	--
Airplanes & Parts	--	16	--	16	0.0	--

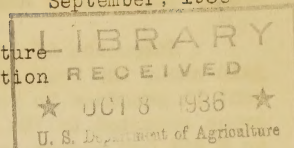
Commodity	Year 1	Year 2	Gain	Year 3	Gain	Gain
	(1,000 lbs)	(1,000 lbs)	Year 2 Over Year 1 (Per- cent)	(1,000 lbs)	Year 3 Over Year 2 (Per- cent)	Year 3 Over Year 1 (Per- cent)
GENERAL GROUP (continued)						
Batteries, other	212	429	102.4	486	13.3	129.2
Gasoline, Oil & Petroleum						
Products	--	72	--	164	127.8	--
Alcohol & Anti-Freeze	30	30	0.0	53	76.7	76.7
Paper & Products	1,424	1,240	-12.9	2,422	95.3	70.1
Organs & Equipment	19	26	36.8	63	142.3	231.6
Drugs & Chemicals	1,623	1,366	-15.8	1,461	7.0	-10.0
Glass & Glassware	--	65	--	42	-35.4	--
Rubber & Products	599	660	10.2	991	50.2	65.4
Leather & Leather Goods	14	245	1650.0	229	-6.5	1,535.7
Nails	--	--	--	40	--	--
Millwork & Cooperage	1,398	1,557	11.4	1,257	-19.3	-10.1
Twine & Rope	68	175	157.4	28	-84.0	-58.8
Explosives	222	191	-14.0	70	-63.4	-68.5
Soap	1,861	1,984	6.6	2,069	4.3	11.2
Tin & Products	--	79	--	--	--	--
Total General						
Group	7,470	8,238	10.3	9,585	16.4	28.3
GRAND TOTAL	20,905	28,593	36.8	30,124	5.4	44.1

Delaware

September, 1936

United States Department of Agriculture
Agricultural Adjustment Administration

Commodity Survey Series



Carlot railway shipments of manufactured and commercial commodities originating in the State of Delaware and delivered to 32 predominantly agricultural States west of the Mississippi and south of the Potomac and Ohio Rivers, increased 17.9 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the Agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from Delaware, together with the changes from year to year, were as follows: In year 1 the total was 5,688,000 pounds; in year 2 it was 7,789,000 pounds or a gain of 36.9 percent; in year 3 it was 6,705,000 pounds, a loss of 13.9 percent over the year 2 poundage but a gain of 17.9 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized States east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Delaware and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as highly accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in Delaware and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group, including goods used

mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from Delaware in the general group showed the greatest gain among the four groups, in the 2-year period, with an advance of 242.7 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 759,000 pounds in year 1, to 1,921,000 pounds in year 2, and to 2,601,000 pounds in year 3. Shipments in year 2 gained 153.1 percent over those in year 1, and shipments in year 3 gained 35.4 percent over those in year 2.

The domestic and personal group showed a gain of 100 percent in year 3 as compared with year 1. Shipments in this group were 334,000, 416,000 and 668,000 pounds in years 1, 2 and 3, respectively.

The commercial and industrial group, as a whole, showed a decline of 25.2 percent in poundage in year 3 as compared with year 1, but three items in this group showed notable increases. They were cork and products, sand, and commercial and industrial machinery, shipments of which rose in weight 559.4, 205.2 and 161.2 percent, respectively, in the 2-year period. Shipments of cork and products increased from 128,000 pounds in year 1 to 844,000 pounds in year 3; those of sand from 97,000 to 296,000 pounds; and those of commercial and industrial machinery from 227,000 to 593,000 pounds.

The greatest gain in any single sub-group, after cork and products, was in drugs and chemicals of which 2,087,000 pounds was forwarded in carlot shipments from Delaware to agricultural areas in year 3, as compared with 604,000 pounds in year 1, and 1,578,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 245.5 percent.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases, for both year 2 and year 3. Such is the case with the agricultural group.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

DELAWARE

Carlot shipments of manufactured and industrial commodities from Delaware to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs.)	(1,000 lbs.)	(Per- cent)	(1,000 lbs.)	(Per- cent)	(Per- cent)
AGRICULTURAL GROUP						
Farm Implements and Machinery	--	46	--	--	--	--
Beehives	--	37	--	--	--	--
Total Agricultural Group	--	83	--	--	--	--
DOMESTIC AND PERSONAL GROUP						
Furniture, Mixed	32	14	-56.3	12	-14.3	-62.5
Carpets and Linoleum	--	90	--	186	106.7	--
Cotton Piece Goods and Batting	--	--	--	47	--	--
Sauces and Extracts	184	243	32.1	118	-51.5	-35.9
Fruit and Vegetable Juices	118	69	-41.5	305	342.0	158.5
Total Domestic and Personal Group	334	416	24.6	668	60.6	100.0
COMMERCIAL AND INDUSTRIAL GROUP						
Steel and Iron Products	2,166	3,475	60.4	868	-75.0	-59.9
Boilers, Tubes and Parts	380	782	105.8	--	--	--
Machinery, Commercial and Industrial	227	112	-50.7	593	429.5	161.2
Machinery Parts	162	11	-93.2	14	27.3	-91.4
Tools and Equipment	--	14	--	--	--	--
Baskets, Canvases	--	--	--	101	--	--
Bottle Caps	253	100	-60.5	48	-52.0	-81.0
Cloth	--	--	--	72	--	--
Cork and Products	128	473	269.5	844	78.4	559.4
Felt and Carpeting	--	208	--	172	-17.3	--
Hides and Pelts	--	--	--	42	--	--
Tanners Extracts and Oils	1,182	184	-84.4	307	66.8	-74.0

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
COMMERCIAL AND INDUSTRIAL GROUP (continued)						
Yarn	--	--	--	45	--	--
Insulation	--	--	--	34	--	--
Sand	97	10	-89.7	296	2360.0	205.2
Total Commercial and Industrial Group	4,595	5,369	16.8	3,436	-36.0	-25.2
GENERAL GROUP						
Alcohol and Anti-Freeze	--	--	--	36	--	--
Auto Parts and Accessories	41	--	--	--	--	--
Gasoline, Oil and other Petroleum Products	32	--	--	--	--	--
Coke	--	--	--	31	--	--
Magazines, Books, Catalogues, and other advertising material	--	--	--	20	--	--
Paper and Products	--	41	--	--	--	--
Drugs and Chemicals	604	1,578	161.3	2,087	31.3	245.5
Glass and Glassware	33	--	--	--	--	--
Millwork and Cooperage	--	--	--	21	--	--
Paints and Varnishes	--	187	--	375	100.5	--
Rubber and Products	49	--	--	--	--	--
Tin and Products	--	115	--	--	--	--
Twine and Rope	--	--	--	31	--	--
Total General Group	759	1,921	153.1	2,601	35.4	242.7
Grand Total	5,688	7,789	36.9	6,705	-13.9	17.9

Illinois

September, 1936

United States Department of Agriculture
Agricultural Adjustment Administration

Commodity Survey Series.

U. S. Department of Agriculture

Carlot railway shipments of manufactured and commercial commodities originating in the State of Illinois and delivered to 32 predominantly agricultural States west of the Mississippi and south of the Potomac and Ohio Rivers, increased 36.8 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

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Total weight of carlot shipments from Illinois, together with the changes from year to year, were as follows: In year 1 the total was 2,883,466,000 pounds; in year 2 it was 3,604,930,000 pounds or a gain of 25 percent; in year 3 it was 3,945,278,000 pounds, a gain of 9.4 percent over the year 2 poundage and of 36.8 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000ⁱⁿ the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Illinois and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

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The hundreds of articles produced in Illinois and shipped by the carload to the agricultural areas were classified in this study according to their principal uses into four main groups, each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from Illinois in the agricultural group showed the greatest gain among the four groups, in the 2-year period, with an advance of 173.4 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 162,655,000 pounds in year 1, to 347,652,000 pounds in year 2, and to 444,765,000 pounds in year 3. Shipments in year 2 gained 113.7 percent over those in year 1, and shipments in year 3 gained 27.9 percent over those in year 2.

In this group farm implements and machinery rose from 50,795,000 pounds in year 1 to 213,885,000 pounds in year 3, an advance of 321.1 percent; tractors and parts, from 30,161,000 pounds in year 1 to 106,376,000 pounds in year 3, or 252.7 percent; and steel fence posts from 3,015,000 pounds in year 1 to 9,384,000 pounds in year 3, or 211.2 percent.

The greatest gain in any single manufactured commodity in any group was registered in air filters and blowers of which 1,246,000 pounds was forwarded in carlot shipments from Illinois to agricultural areas in year 3 as compared with 31,000 pounds in year 1 and 418,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 3,919.4 percent.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

Shipments of commodities in the domestic and personal group gained 76 percent in year 3 as compared with year 1. This group showed a gain of 33.7 percent in year 2 over year 1, and a gain of 31.7 percent in year 3 as compared with year 2. Weights of shipments amounted to 169,258,000 pounds in year 1, to 226,237,000 pounds in year 2, and to 297,939,000 pounds in year 3.

Shipments of matches, in this group, increased in the same period from 225,000 pounds in year 1 to 3,253,000 pounds in year 3, or 1,345.8 percent. Other important rises were: beer, from 23,982,000 pounds to 90,055,000 pounds, or 275.5 percent; tables, from 24,000 to 83,000 pounds, or 245.8 percent; bedding, from 409,000 to 1,411,000 pounds, or 245 percent; refrigerators, from 3,062,000 to 10,469,000 pounds, or 241.9 percent; cotton piece goods and batting, from 470,000 to 1,230,000 pounds, or 161.7 percent; and clothing, from 393,000 pounds to 732,000 pounds, or 86.3 percent.

The industrial and commercial group, including 57 commodity items, showed increases of 29.5 percent in year 3 as compared with year 1, of 14.5 percent in year 3 over year 2, and of 13.1 percent in year 2 over year 1. Weights of shipments in this group amounted to 1,084,737,000 pounds in year 1, to 1,226,685,000 pounds in year 2, and to 1,405,059,000 pounds in year 3.

Many other commodities in this group were shipped in greater quantities in year 3 than in the two preceding years. Some of the most striking, in addition to air filters and blowers, were: scales and parts, from 155,000 pounds in year 1 to 1,606,000 pounds in year 3, or 936.1 percent; abrasives from 88,000 to 781,000 pounds, or 787.3 percent; zinc from 447,000 to 3,462,000 pounds, or 674.5 percent; gas, steam, and other engines, from 4,964,000 to 27,233,000 pounds, or 448.6 percent; hides and pelts, from 3,900,000 to 19,664,000 pounds, or 404.2 percent; fish and animal oils, from 96,000 to 327,000 pounds, or 240.6 percent; refrigerating machinery, from 712,000 to 2,320,000 pounds, or 225.8 percent; road machinery, from 3,337,000 to 10,636,000 pounds, or 218.7 percent; electrical machinery, from 1,561,000 to 4,876,000 pounds, or 212.4 percent; and tools and equipment, from 1,098,000 to 3,407,000 pounds, or 210.3 percent.

The general group, with 27 commodity items, showed a gain of 22.5 percent in year 3 over year 1. The total weight for this group in year 3 showed a decrease of 0.4 percent as compared with year 2, while year 2 had shown an increase of 23 percent over year 1. Weights of shipments in this group amounted to 1,466,816,000 pounds in year 1, to 1,804,362,000 pounds in year 2, and to 1,797,515,000 pounds in year 3.

In this group, shipments of bicycles, motorcycles, etc., showed the greatest percentage gain over the 2-year period, totaling 243,000 pounds in year 3 as compared with 20,000 pounds in year 1, a gain of 1,115.0 percent. Automobile shipments rose from 26,891,000 pounds to 73,083,000 pounds, or an advance of 171.8 percent. Trucks, registered an advance of 188.4 percent from 1,582,000 pounds to 4,522,000 pounds. Coke gained 97.8 percent, from 57,338,000 pounds in year 1 to 113,427,000 pounds in year 3. Leather and leather goods rose from 3,762,000 pounds to 6,264,000 pounds, or 66.5 percent, and paints and varnishes from 25,542,000 pounds to 36,277,000 pounds, or 42 percent.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that where shipments occur in only one or two years of the three years studied, it is impracticable to calculate percentage decreases or increases for both years 2 and 3.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

ILLINOIS

Carlot shipments of manufactured and industrial commodities from Illinois, to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	50,795	132,448	160.8	213,885	61.5	321.1
Tractors and Parts	30,161	60,336	100.0	106,376	76.3	252.7
Beehives	14	36	157.1	115	219.4	721.4
Brooders and Incubators	455	205	-55.0	194	-5.4	-57.4
Steel Fence Posts	3,015	7,048	133.8	9,384	33.1	211.2
Harness and Saddlery	134	330	146.3	191	-42.1	42.5
Wagons and Wheels	1,451	4,484	209.0	2,043	-54.4	40.8
Wire and Fencing	76,630	142,765	86.3	112,577	-21.2	46.9
Total Agricultural Group	162,655	347,652	113.7	444,765	27.9	173.4
<u>DOMESTIC AND PERSONAL GROUP</u>						
Bookcases and Desk	26	36	38.5	24	-33.3	-7.7
Cabinets and Kitchen Cabinets	292	1,473	404.5	573	-61.1	96.2
Chairs	216	233	7.9	356	52.8	64.8
Electric Lamps and Fixtures	76	112	47.4	--	--	--
Furniture, Mixed	24,360	26,335	8.1	32,706	24.2	34.3
Radios and Parts	1,323	1,534	15.9	1,638	6.8	23.8
Refrigerators	3,062	5,915	93.2	10,469	77.0	241.9
Sewing Machines	--	--	--	1,324	--	--
Stoves and Heaters	10,846	18,998	75.2	24,774	30.4	128.4
Tables	24	30	25.0	83	176.7	245.8
Bedding	409	601	46.9	1,411	134.8	245.0
Carpets and Linoleum	147	430	192.5	241	-44.0	63.9

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
DOMESTIC AND PERSONAL GROUP (Continued)						
Cotton Piece Goods and						
Batting	470	489	4.0	1,230	151.5	161.7
Dishes	108	120	11.1	162	35.0	50.0
Electrical Appliances	1,019	624	-38.8	1,214	94.6	19.1
Furnaces	1,175	1,065	-9.4	1,251	17.5	6.5
Lawn Mowers	259	494	90.7	292	-40.9	12.7
Matches	225	349	55.1	3,253	832.1	1,345.8
Plumbing Fittings and						
Fixtures	1,298	1,612	24.2	1,837	14.0	41.5
Shoe Polish	10	--	--	--	--	--
Woolens	1,227	296	-75.9	1,188	301.4	-3.2
Clothing	393	259	-34.1	732	182.6	86.3
Cereals	15,405	16,906	9.7	22,244	31.6	44.4
Cereal Beverages	12,303	3,370	-72.6	1,226	-63.6	-90.0
Confectionery	40,003	27,390	-31.5	32,937	20.3	-17.7
Gelatin	44	--	--	--	--	--
Sauces and Extracts	13,197	12,783	-3.1	10,751	-15.9	-18.5
Spaghetti	433	654	51.0	1,014	55.0	134.2
Tapioca	62	--	--	55	--	-11.3
Beer	23,982	68,691	186.4	90,055	31.1	275.5
Fruit and Vegetable Juices	173	181	4.6	45	-75.1	-74.0
Ginger Ale and other						
Beverages	9,302	8,270	-11.1	10,310	24.7	10.8
Liquor	1,316	17,488	1,228.9	35,832	104.9	2,632.8
Arms and Ammunition	2,948	6,840	132.0	5,343	-21.9	81.2
Targets	567	670	18.2	1,049	56.6	85.0
Toilet Preparations	1,234	1,323	7.2	1,051	-20.6	-14.8
Toys	1,204	486	-59.6	1,062	118.5	-11.8
Undertaker's Supplies	120	180	50.0	207	15.0	72.5
Total Domestic and Personal Group	169,258	226,237	33.7	297,939	31.7	76.0

INDUSTRIAL AND COMMERCIAL GROUP

Steel and Iron Products	328,173	447,004	36.2	504,000	12.8	53.6
Air Filters and Blowers	31	418	1,248.4	1,246	198.1	3919.4
Boilers, tubes and parts	2,953	3,923	32.8	3,559	-9.3	20.5
Cables	656	1,192	81.7	1,708	43.3	160.4

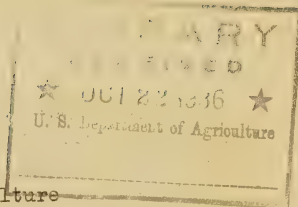
Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
INDUSTRIAL AND COMMERCIAL GROUP (Continued)						
Cotton Gins and Parts	--	--	--	96	--	--
Elevators	211	177	-16.1	124	-30.0	-41.2
Engines (gas, steam, etc.)	4,964	16,065	223.6	27,233	69.5	448.6
Machinery, Commercial and Industrial	36,355	50,456	38.8	35,984	-28.7	-1.0
Machinery, Electrical	1,561	3,255	108.5	4,876	49.8	212.4
Machinery, Refrigerating	712	2,461	245.6	2,320	-5.7	225.8
Machinery, Road	3,337	6,795	103.6	10,636	56.5	218.7
Machinery Parts	2,245	3,163	40.9	3,430	8.4	52.8
Scales and Parts	155	324	109.0	1,606	395.7	936.1
Tools and Equipment	1,098	1,667	51.8	3,407	104.4	210.3
Canvas Baskets	--	49	--	34	-30.6	--
Furniture, metal	2,180	2,544	16.7	3,368	32.4	54.5
Stokers, mechanical	191	129	-32.5	103	-20.2	-46.1
Store Fixtures	325	122	-62.5	284	132.8	-12.6
Switchboards	1,736	482	-72.2	588	22.0	-66.1
Threatre Chairs	20	--	--	43	--	115.0
Abrasives	88	204	131.8	781	282.8	787.5
Animal Hair	160	237	48.1	113	-52.3	-29.4
Burlap and Bagging	7,875	5,957	-24.4	4,661	-21.8	-40.8
Bottle Caps	980	1,222	24.7	313	-74.4	-68.1
Cloth	2,237	3,065	37.0	4,009	30.8	79.2
Clothing Loops	1,913	4,519	136.2	229	-94.9	-88.0
Cork	--	84	--	222	164.3	--
Cotton	204	38	-81.4	356	836.8	74.5
Cotton Factory Supplies	145	204	40.7	101	-50.5	-30.4
Felt and Carpeting	1,939	1,589	-18.1	2,602	63.8	34.2
Glue and Sizing	749	1,226	63.7	1,379	12.5	84.1
Hides and Pelts	3,900	7,366	88.9	19,664	167.0	404.2
Malt and Malt Syrup	15,944	21,711	36.2	25,596	17.9	60.5
Oils, fish and animal	96	277	188.5	327	18.1	240.6
Oils, vegetable	11,177	10,223	-8.5	23,563	130.5	110.8
Ore	693	6,594	851.5	46,313	602.4	6,583.0
Sponges	276	741	168.5	57	-92.3	-79.4
Tallow	870	2,446	181.1	1,416	-42.1	62.8
Tanners Extracts and Oils	340	247	-27.4	223	-9.7	-34.4
Tobacco	4,052	2,860	-29.4	4,793	67.6	18.3
Waste, Sweepings, etc.	191	305	59.7	404	32.5	111.5
Yarn	85	19	-77.7	153	705.3	80.0
Asbestos and Products	10,873	13,998	28.7	16,967	21.2	56.0

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>INDUSTRIAL AND COMMERCIAL GROUP (Continued)</u>						
Asphalt and Products	228,872	215,787	-5.7	250,115	15.9	9.3
Bricks	39,515	44,727	13.2	46,375	3.7	17.4
Building Material						
Miscellaneous	10,723	9,967	-7.1	14,108	41.5	31.6
Cement and Concrete						
Products	129,742	113,689	-12.4	96,140	-15.4	-25.9
Coal tar, Pitch, etc.	20,982	13,075	-37.7	27,991	114.1	33.4
Insulation	2,032	2,023	-0.5	4,478	121.4	120.4
Lumber and Products	44,422	40,180	-9.6	41,336	2.9	-7.0
Sand	103,361	104,187	0.8	101,787	-2.3	-1.5
Shingles	4,512	4,010	-11.1	3,532	-11.9	-21.7
Stone and Products	31,101	25,622	-17.6	25,143	-1.9	-19.2
Aluminum and Products	2,988	3,589	20.1	2,761	-23.1	-7.6
Copper and Brass Products	7,625	11,774	54.4	17,444	48.2	128.8
Lead and Products	6,725	6,300	-6.3	11,500	82.5	71.0
Zinc	447	6,397	1,331.1	3,462	-45.9	674.5
Total Industrial and Commercial Group	1,084,737	1,226,685	13.1	1,405,059	14.5	29.5
<u>GENERAL GROUP</u>						
Airplanes and Parts	155	203	31.0	202	-0.5	30.3
Alcohol and Anti-Freeze	8,947	18,448	106.2	12,220	-33.8	36.6
Automobiles	26,891	81,455	202.9	73,083	-10.3	171.8
Auto Parts and Accessories	28,898	18,645	-35.5	18,533	-0.6	-35.9
Batteries	6,506	9,881	51.9	9,349	-5.4	43.7
Bicycles, Motorcycles, etc.	20	180	800.0	243	35.0	1,115.0
Gasoline, oil, and other						
Petroleum Products	602,276	723,837	20.2	780,018	7.8	29.5
Trucks	1,582	3,949	149.6	4,562	15.5	188.4
Coke	57,338	70,080	22.2	113,427	61.9	97.8
Paper and Products	118,898	140,073	17.8	150,917	7.7	26.9
Magazines, Books, Catalogues and other advertising material	37,140	35,569	-4.2	38,469	8.2	3.6
School Furniture and Supplies	250	403	61.2	249	-38.2	-0.4
Hospital Supplies	346	217	-37.3	112	-48.4	-67.6
Organs and Equipment	--	38	--	70	84.2	--

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
GENERAL GROUP (Continued)						
Clay and Products	20,582	18,419	-10.5	27,823	51.1	35.2
Drugs and Chemicals	239,322	303,450	26.8	200,589	-33.9	-16.2
Explosives	5,037	4,742	-5.9	3,992	-15.8	-20.8
Glass and Glassware	63,045	81,484	29.2	80,440	-1.3	27.6
Ink	982	875	-10.9	1,192	36.2	21.4
Leather and Leather Goods	3,762	4,260	13.2	6,264	47.0	66.5
Millwork and Cooperage	21,020	28,261	34.4	23,604	-16.5	12.3
Nails	22,833	37,909	66.0	25,645	-32.4	12.3
Paints and Varnishes	25,542	32,785	28.4	36,277	10.7	42.0
Rubber and Products	3,086	3,489	13.1	1,698	-51.3	-45.0
Soap	52,866	62,313	17.9	62,831	0.8	18.8
Tin and Products	101,068	118,341	17.1	118,503	0.1	17.3
Twine and Rope	18,424	5,056	-72.6	7,203	42.5	-60.9
Total General Group	1,465,816	1,804,362	23.0	1,797,515	-0.4	22.5
Grand Total	2,883,466	3,604,936	25.0	3,915,278	9.4	36.8

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Commodity Survey Series
Indiana
September 1936



United States Department of Agriculture
Agricultural Adjustment Administration
Division of Information

Carlot railway shipments of manufactured and commercial commodities originating in the State of Indiana and delivered to the 32 predominantly agricultural states west of the Mississippi and south of the Potomac and Ohio Rivers, increased 38.1 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated as "year 2"; and the 12 months ended June 30, 1935, as "year 3".

Total weight of carlot shipments from Indiana, together with the changes from year to year, were as follows: In year 1 the total was 1,204,449,000 pounds; in year 2 it was 1,492,658,000 pounds, or a gain of 23.9 percent; in year 3 it was 1,665,609,000 pounds, a gain of 11.5 percent over the year 2 poundage, and of 38.1 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Indiana and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in Indiana and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural" group made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from Indiana in the domestic and personal group showed the greatest gain among the four groups, in the 2-year period, with an advance of 299.4 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 27,689,000 pounds in year 1, to 55,282,000 pounds in year 2, and to 110,597,000 pounds in year 3. Shipments in year 2 gained 99.7 percent over those in year 1, and shipments in year 3 gained 100.1 percent over those in year 2.

The greatest gain in any commodity of this group, with the exception of beer and liquor, was in confectionery of which 453,000 pounds was forwarded in carlot shipments from Indiana in year 3 as compared with 52,000 pounds in year 1, and 37,000 in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 771.2 percent. Shipments of liquor advanced 33,754.1 percent in the two years and beer shipments gained 2,089.4 percent.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

Shipments of commodities in the agricultural group gained 79.6 percent in year 3 as compared with year 1. This group showed a gain of 60.9 percent in year 2 over year 1, a gain of 11.6 percent in year 3 as compared with year 2. Weights of shipments amounted to 38,477,000 pounds in year 1, to 61,915,000 pounds in year 2, and to 69,119,000 pounds in year 3. Shipments of farm implements and machinery showed the greatest gain in the 2-year period, totaling 27,830,000 pounds in year 3 as compared to 7,387,000 pounds in year 1, a gain of 276.7 percent.

The industrial and commercial group containing 54 commodity items showed increases of 55.2 percent in year 3 as compared with year 1, 15.3 percent in year 3 over year 2, and 34.6 percent in year 2 over year 1. Weights of shipments in this group amounted to 466,397,000 pounds in year 1, to 627,914,000 pounds in year 2, and to 723,948,000 pounds in year 3.

The greatest percentage increase for any commodity item in this group was in canvas baskets, of which 605,000 pounds were manufactured in Indiana and delivered to agricultural areas in year 3, as compared with 10,000 pounds in year 1, an increase of 5,950.0 percent. Shipments of lumber and products increased 953.3 percent and carlot shipments of waste, sweepings, etc., increased 700.0 percent in year 3 as compared to year 1 and 4,810.0 percent in year 2 as compared to year 1.

The general group showed a gain of 13.1 percent in year 3 over year 1. In this group year 3 showed an increase of 1.7 percent as compared to year 2, while year 2 had showed an increase of 11.3 percent over year 1. Weights of shipments in this group amounted to 671,886,000 pounds in year 1, to 747,547,000 in year 2 and 759,945,000 in year 3.

In this group, weight of twine and rope shipments increased 728.9 percent in year 3 over year 1; shipments of clay and products gained 341.7 percent, and shipments of alcohol and anti-freeze advanced 313.3 percent. Weight of carlot shipments of trucks increased 151.7 percent and automobile shipments advanced 75.9 percent.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

INDIANA

Carlot shipments of manufactured and industrial commodities from Indiana to 32 predominantly agricultural states west of the Mississippi River and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	7,387	17,267	133.7	27,830	61.2	276.7
Tractors and Parts	1,392	315	-77.4	1,666	428.9	19.7
Brooders and Incubators	--	77	--	64	-16.9	--
Steel Fence Posts	214	454	112.1	304	-33.0	42.1
Harness and Saddlery	71	107	50.7	16	-85.1	-77.5
Wagons and Wheels	455	3,472	663.1	1,327	-61.8	191.6
Wire and Fencing	28,958	40,223	38.9	37,912	-5.8	30.9
Total Agricultural Group	38,477	61,915	60.9	69,119	11.6	79.6
<u>DOMESTIC AND PERSONAL GROUP</u>						
Bookcases and Desks	14	--	--	37	--	164.3
Cabinets and Kitchen Cabinets	1,319	2,796	112.0	2,274	-18.7	72.4
Chairs	338	714	11.2	1,431	100.4	323.4
Electric Lamps and Fixtures	--	27	--	--	--	--
Furniture, Mixed	9,908	15,097	52.4	13,317	-11.8	34.4
Radios and Parts	420	339	-19.3	922	172.0	119.5
Refrigerators	2,611	5,186	98.6	13,209	154.7	405.9
Sewing Machines	133	297	123.3	1,042	250.8	683.5
Stoves and Heaters	1,974	4,668	136.5	5,097	9.2	158.2
Tables	85	231	171.8	125	-45.9	47.1
Bedding	44	236	436.4	30	-87.3	-31.8
Carpets and Linoleum	57	40	-29.8	334	735.0	486.0
Cotton Piece Goods and Batting	870	529	-39.2	1,196	126.1	37.5

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>DOMESTIC AND PERSONAL GROUP (Continued)</u>						
Dishes	--	107	--	--	--	--
Electrical Appliances	143	717	401.4	569	-20.7	297.9
Furnaces	255	261	2.4	216	-17.3	-15.3
Lawn Mowers	1,177	1,643	39.6	1,093	-33.5	-7.1
Matches	22	--	--	--	--	--
Plumbing Fittings and Fixtures	528	952	80.3	4,266	348.1	708.0
Shoe Polish	348	445	27.9	449	0.9	29.0
Woolens	489	429	-12.3	709	65.3	45.0
Clothing	72	79	9.7	205	159.5	184.7
Cereals	239	165	-31.0	1,783	980.6	646.0
Cereal Beverages	--	369	--	835	126.3	--
Confectionery	52	37	-28.9	453	1,124.3	771.2
Gelatin	--	10	--	--	--	--
Sauces and Extracts	2,980	3,521	18.2	7,647	117.2	156.6
Spaghetti	35	--	--	42	--	20.0
Tapioca	155	--	--	174	--	12.3
Beer	1,270	11,456	802.0	27,805	142.7	2,089.4
Fruit and Vegetable Juices	901	624	-30.8	1,566	151.0	73.8
Liquor	61	2,928	4,700.0	20,651	605.3	33,754.1
Ginger Ale and other Beverages	1,031	1,103	7.0	2,781	152.1	169.7
Toilet Preparations	--	--	--	14	--	--
Toys	158	143	-9.5	83	-42.0	-47.5
Undertaker's Supplies	--	133	--	242	82.0	--
Total Domestic and Personal Group	27,689	55,282	99.7	110,597	100.1	299.4

INDUSTRIAL AND COMMERCIAL GROUP

Steel and Iron Products	231,465	379,109	63.8	391,146	3.2	69.0
Air Filters and Blowers	--	50	--	44	-12.0	--
Boilers, tubes, and parts	956	945	-1.2	1,659	75.6	73.5
Cables	195	244	25.1	269	10.2	37.9
Cotton Gins and Parts	--	21	--	--	--	--
Elevators	--	--	--	23	--	--
Engines (gas, steam, etc.)	528	336	-36.4	544	61.9	3.0
Machinery, Commercial and Industrial	4,189	5,881	40.4	7,374	25.4	76.0

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
INDUSTRIAL AND COMMERCIAL GROUP (Continued)						
Machinery, Electrical	2,626	2,439	-7.1	2,363	-3.1	-10.0
Machinery, Refrigerating	761	1,583	108.0	2,545	60.8	234.4
Machinery, Road	3,392	4,136	21.9	7,012	69.5	106.7
Machinery Parts	715	838	17.2	2,487	196.8	247.8
Scales and Parts	--	--	--	60	--	--
Tools and Equipment	566	658	16.3	1,126	71.1	98.9
Canvas Baskets	10	--	--	605	--	5,950.0
Fire Apparatus	--	--	--	37	--	--
Furniture, metal	23	252	995.7	125	-50.4	443.5
Stokers, mechanical	61	731	1,098.4	--	--	--
Store Fixtures	--	20	--	35	75.0	--
Theatre Chairs	--	25	--	108	332.0	--
Abrasives	--	217	--	--	--	--
Animal Hair	32	37	15.6	79	113.5	146.9
Burlap and Bagging	5,127	4,900	-4.4	3,144	-35.8	-38.7
Bottle Caps	227	192	-15.4	167	-13.0	-26.4
Cloth	1,244	1,552	24.8	142	-90.9	-88.6
Clothing Loops	79	--	--	--	--	--
Cork	--	87	--	41	-52.9	--
Cotton	--	--	--	64	--	--
Cotton Factory Supplies	--	--	--	62	--	--
Glue and Sizing	40	148	270.0	--	--	--
Hides and Pelts	77	245	218.2	432	76.3	461.0
Malt and Malt Syrup	580	1,178	103.1	258	-78.1	-55.5
Oils, fish and animal	66	--	--	302	--	357.6
Oils, vegetable	418	144	-65.6	1,574	993.1	276.6
Ore	80	74	-7.5	258	248.6	222.5
Tallow	103	192	86.4	656	241.7	536.9
Tanners Extracts and Oils	37	32	-13.5	64	100.0	73.0
Tobacco	79	85	7.6	523	515.3	562.0
Waste, Sweepings, etc.	10	491	4,810.0	80	-83.7	700.0
Asbestos and Products	50	84	68.0	214	154.8	328.0
Asphalt and Products	20,598	24,465	18.8	33,067	35.2	60.5
Bricks	6,953	12,182	75.2	12,188	0.0	75.3
Building Material	5,079	5,543	9.1	10,008	80.6	97.0
Cement and Concrete Products	112,025	114,085	1.8	123,190	8.0	10.0
Coal tar, Pitch, etc.	2,534	1,141	-55.0	4,555	299.2	79.8
Insulation	5,223	6,588	26.1	7,445	13.0	42.5
Lumber and Products	2,723	7,159	162.9	28,680	300.6	953.3

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>INDUSTRIAL AND COMMERCIAL GROUP (Continued)</u>						
Sand	5,534	10,611	91.7	42,265	298.3	663.7
Shingles	--	417	--	150	-64.0	--
Stone and Products	50,820	36,316	-28.5	34,074	-6.2	-33.0
Aluminum and Products	61	160	162.3	24	-85.0	-60.7
Copper and Brass Products	396	865	118.4	943	9.0	138.1
Lead and Products	533	828	55.3	890	7.5	67.0
Zinc and Products	182	623	245.1	847	34.9	365.4
Total Industrial and Commercial Group	466,397	627,914	34.6	723,948	15.3	55.2
<u>GENERAL GROUP</u>						
Airplanes and Parts	--	77	--	--	--	--
Alcohol and Anti-Freeze	777	2,020	160.0	3,211	59.0	313.3
Automobiles	7,607	15,364	102.0	13,379	-12.9	75.9
Auto Parts and Accessories	10,144	23,781	134.4	33,414	40.5	229.4
Batteries	10,132	14,448	42.6	13,878	-4.0	37.0
Bicycles, Motorcycles, etc.	144	198	37.5	362	82.8	151.4
Gasoline, oil, and other Petroleum Products	375,865	378,439	0.7	351,072	-7.2	-6.6
Trucks	954	1,616	69.4	2,401	48.6	151.7
Coke	52,462	45,581	-13.1	27,078	-40.6	-48.4
Paper and Products	12,286	15,304	24.6	17,025	11.2	38.6
Magazine, Books, Catalogues, and other advertising material	404	440	8.9	395	-10.2	-2.2
Organs and Equipment	--	106	--	62	-41.5	--
School Furniture and Supplies	180	50	-72.2	158	216.0	-12.2
Clay and Products	9,676	9,482	-2.0	42,736	350.7	341.7
Drugs and Chemicals	28,716	41,368	44.1	52,519	27.0	82.9
Explosives	736	635	-13.7	489	-23.0	-33.6
Glass and Glassware	62,673	62,760	0.1	60,135	-4.2	-4.1
Ink	--	42	--	55	31.0	--
Leather and Leather Goods	96	116	20.8	206	77.6	114.6
Millwork and Cooperage	3,574	4,898	37.0	6,277	28.2	75.6
Nails	5,092	8,650	69.9	6,557	-24.2	28.8
Paints and Varnishes	1,303	1,920	47.4	1,895	-1.3	45.4

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
GENERAL GROUP (Continued)						
Rubber and Products	170	72	-57.7	99	37.5	-41.8
Soap	32,750	42,025	28.3	45,035	7.2	37.5
Tin and Products	55,914	78,073	39.6	79,594	1.9	42.4
Twine and Rope	231	82	-64.5	1,913	2,232.9	728.1
Total General Group	671,886	747,547	11.3	759,945	1.7	13.1
Grand Total	1,204,449	1,492,658	23.9	1,663,609	11.5	38.1

Commodity Survey Series

Carlot railway shipments of manufactured and commercial commodities originating in the State of Maine and delivered to 32 predominantly agricultural States west of the Mississippi and south of the Potomac and Ohio Rivers, increased 85.6 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of the 16 principal railroads delivering the shipments to the Agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after beginning of these measures, was designated as "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from Maine, together with the changes from year to year, were as follows: In year 1 the total was 39,287,000 pounds; in year 2 it was 75,053,000 pounds or a gain of 91 percent; in year 3 it was 72,908,000 pounds, a loss of 2.9 percent from the year 2 poundage but a gain of 85.6 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized States east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,408,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Maine and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in Maine and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used

principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group, including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from Maine in the general group showed the greatest gain among the four groups, in the 2-year period, with an advance of 96.8 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 32,995,000 pounds in year 1, to 58,271,000 pounds in year 2, and to 64,924,000 pounds in year 3. Shipments in year 2 gained 76.6 percent over those in year 1, and shipments in year 3 gained 11.4 percent over those in year 2. Shipments of paper and products, one of the most important items in the general group, rose from 30,779,000 pounds in year 1 to 62,716,000 pounds in year 3, or 103.8 percent.

The greatest gain in any single sub-group was in clay and products, of which 89,000 pounds was forwarded in car lot shipments from Maine to agricultural areas in year 3 as compared with 12,000 pounds in year 1, and 268,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 641.7 percent.

Shipments of commodities in the industrial and commercial group gained 59.7 percent in year 3 as compared with year 1. This group showed a gain of 224 percent in year 2 over year 1, but a loss of 50.7 percent in year 3 as compared with year 2. Weights of shipments amounted to 4,419,000 pounds in year 1, to 14,319,000 pounds in year 2, and to 7,055,000 pounds in year 3. Shipments of waste, sweepings, etc., showed the greatest gain in the 2-year period, totaling 103,000 pounds in year 3 as compared to 25,000 pounds in year 1, a gain of 312 percent. Next in line were those of commercial and industrial machinery which increased from 3,329,000 pounds in year 1 to 5,943,000 pounds in year 3, a rise of 78.5 percent.

The agricultural group containing 3 sub-groups of commodities, showed a decrease of 55.3 percent in year 3 as compared with years 1 and 2. However the comparison in this case is particularly unsatisfactory since 17,000 pounds of brooders and incubators shipped in year 3 must necessarily be compared with 38,000 pounds of wire and fencing in year 1, and with an equivalent weight of harness and saddlery in year 2.

The domestic and personal group, with 10 subdivisions, showed a loss of 50.3 percent in year 3 over year 1. In this group year 3 showed a decrease of 62.4 percent as compared to year 2, while year 2 had showed an increase of 32.2 percent over year 1. Weights of shipments in this group amounted to 1,835,000 pounds in year 1, to 2,425,000 in year 2, and 912,000 in year 3.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

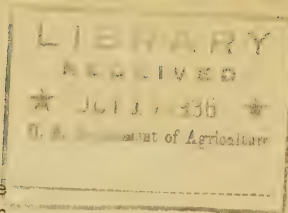
MAINE

Carlot shipments of manufactured and industrial commodities from Maine to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935. The figures are given in thousands of pounds.

Commodity	Year 1	Year 2	Gain Year 2 over Year 1	Year 3	Gain Year 3 over Year 2	Gain Year 3 over Year 2
	(1000 lbs.)	(1000 lbs.)	(Per- cent)	(1000 lbs.)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Brooders and Incubators	--	--	--	17	--	--
Harness and Saddlery	38	--	--	--	--	--
Wire and Fencing	--	38	--	--	--	--
Total Agricultural Group	38	38	0.0	17	-55.3	-55.3
<u>DOMESTIC AND PERSONAL GROUP</u>						
Furniture, Mixed	148	45	-69.6	--	--	--
Sewing Machines	--	98	--	--	--	--
Stoves and Heaters	--	30	--	--	--	--
Carpets and Linoleum	12	45	275.0	--	--	--
Cotton Piece Goods and						
Batting	1,090	1,109	1.7	398	-64.1	-63.5
Dishes	436	974	123.4	334	-65.7	-23.4
Matches	--	30	--	86	186.7	--
Woolens	149	34	-77.2	53	55.9	-64.4
Confectionery	--	60	--	--	--	--
Liquor	--	--	--	41	--	--
Total Domestic and Personal Group	1,835	2,425	32.2	912	-62.4	-50.3
<u>INDUSTRIAL AND COMMERCIAL GROUP</u>						
Steel and Iron Products	--	80	--	--	--	--
Engines (gas, steam, etc.)	11	--	--	--	--	--
Machinery, Commercial and Industrial	3,329	13,235	297.6	5,943	-55.1	78.5
Machinery, Electrical	--	66	--	--	--	--

Commodity	Year 1	Year 2	Gain Year 2 over Year 1	Year 3	Gain Year 3 over Year 2	Gain Year 3 over Year 1
INDUSTRIAL AND COMMERCIAL GROUP Cont'd.						
Machinery, Parts	20	--	--	13	--	-35.0
Tools and Equipment	36	53	47.2	15	-71.7	-58.3
Theatre Chairs	93	--	--	--	--	--
Burlap and Bagging	227	229	0.9	153	-33.2	-32.6
Cloth	52	--	--	72	--	38.5
Cotton Factory Supplies	24	--	--	--	--	--
Felt and Carpeting	--	--	--	162	--	--
Waste, Sweepings, etc.	25	28	12.0	103	267.9	312.0
Yarn	--	--	--	31	--	--
Bricks	--	--	--	52	--	--
Lumber and Products	602	474	-21.3	436	-8.0	-27.6
Stone and Products	--	154	--	40	-74.0	--
Copper and Brass Products	--	--	--	35	--	--
Total Industrial and Commercial Group	4,419	14,319	224.0	7,055	-50.7	59.7
GENERAL GROUP						
Automobiles	--	--	--	44	--	--
Auto Parts and Accessories	--	10	--	--	--	--
Gasoline, Oil, and other	--	--	--	--	--	--
Petroleum Products	14	--	--	--	--	--
Paper and Products	30,779	54,884	78.3	62,716	14.3	103.8
Magazines, Books, Catalogues, and other Advertising material	--	--	--	92	--	--
Drugs and Chemicals	162	253	56.2	--	--	--
Glass and Glassware	--	18	--	39	116.7	--
Leather and Leather Goods	12	--	--	--	--	--
Millwork and Cooperage	1,974	2,824	43.1	1,844	-34.7	-6.6
Paint and Varnish	42	--	--	--	--	--
Tin and Products	--	14	--	100	614.3	--
Clay and Products	12	268	2133.3	89	-66.8	641.7
Total General Group	32,995	58,271	76.6	64,924	11.4	96.8
Grand Total	39,287	75,053	91.0	72,908	-2.9	85.6

1.44
HCL
Commodity Survey Series
Maryland
September 1936



United States Department of Agriculture
Agricultural Adjustment Administration
Division of Information

Carlot railway shipments of manufactured and commercial commodities originating in the State of Maryland and delivered to 32 predominantly agricultural states west of the Mississippi and South of the Potomac and Ohio Rivers, increased 29.2 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measured in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from Maryland, together with the changes from year to year, were as follows: In year 1 the total was 168,482,000 pounds; in year 2 it was 171,299,000 pounds, or a gain of 1.7 percent; in year 3 it was 217,677,000 pounds, a gain of 27.1 percent over the year 2 poundage and of 29.2 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Maryland and sent to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in Maryland and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used

principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

The domestic and personal group showed the greatest gain among the four groups, in the 2-year period, with an advance of 459 percent in poundage in year 3, as compared with that of year 1. Shipments in this group amounted to 2,193,000 pounds in year 1, to 8,351,000 pounds in year 2, and to 12,258,000 pounds in year 3. Shipments in year 2 gained 280.8 percent over those in year 1, and shipments in year 3 gained 46.8 percent over those in year 2.

In this group the single item showing the greatest gain was liquor, which advanced from 223,000 pounds in year 1 to 8,099,000 pounds in year 3, or 3,531.8 percent. Electrical appliances increased 416.7 percent from 12,000 pounds in year 1 to 62,000 pounds in year 3.

The greatest percentage gain in any single item was in clay and its products, in the general group. Shipments of this item totaled 760,000 pounds in year 3, as compared with 11,000 pounds in year 1, and 981,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 6,809.1 percent.

None of the four groups showed a decrease in total poundage shipped from Maryland in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

Shipments of commodities in the agricultural group increased 74.3 percent in year 3 as compared with year 1. This group showed a gain of 100.6 percent in year 2 over year 1, but a loss of 13.1 percent in year 3 as compared with year 2. Weights of shipments amounted to 1,469,000 pounds in year 1, to 2,947,000 pounds in year 2, and to 2,560,000 pounds in year 3. Shipments of tractors and parts showed the greatest percentage gain in the 2-year period, totaling 50,000 pounds in year 3 as compared to 10,000 pounds in year 1, a gain of 400 percent. Wire and fencing shipments rose from 1,459,000 pounds in year 1 to 2,452,000 in year 3, an advance of 68.1 percent.

The general group, containing 24 sub-groups of commodities, showed increases of 24.9 percent in year 3 as compared with year 1, 22.9 percent in year 3 over year 2, and 1.7 percent in year 2 over year 1. Weights of shipments in this group amounted to 114,186,000 pounds in year 1, to 116,009,000 pounds in year 2, and to 142,607,000 pounds in year 3. Shipments of trucks showed a percentage increase of 1,933.3 percent going from 15,000 pounds in year 1 to 305,000 pounds in year 3. Shipments of glass and glassware rose from 416,000 to 2,843,000 pounds, or 583.4 percent in the same period. Other notable increases in the same period were those of drugs and chemicals which advanced 490 percent from 2,221,000 to 13,105,000 pounds; those of rubber and products which rose 486.7 percent from 30,000 to 176,000 pounds; and those of soap which rose 188.8 percent from 640,000 to 1,848,000 pounds.

The industrial and commercial group, with 44 sub-divisions, showed a gain of 19 percent in year 3 over year 1. In this group year 3 showed an increase of 37 percent as compared to year 2, while year 2 had shown a decrease of 13.1 percent over year 1. Weights of shipments in this group

amounted to 50,634,000 pounds in year 1, to 43,992,000 in year 2 and 60,252,000 in year 3. In this group yarn shipments showed the greatest percentage increase, advancing from 12,000 to 129,000 pounds or 975 percent, in the 2-year period. Hide and pelt shipments went from 164,000 to 1,086,000 pounds between years 1 and 3, a rise of 562.2 percent, while those of malt and malt syrup increased from 298,000 to 1,951,000 pounds, or 554.7 percent, in the same period. Also important was the increase in shipments of copper and brass products which rose from 416,000 to 1,685,000 pounds, or 305 percent; those of commercial and industrial machinery which advanced 292 percent, or from 176,000 pounds in year 1 to 690,000 pounds in year 3; and those of cloth which rose from 356,000 to 691,000 pounds, or 94.1 percent.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases, for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY BY COMMODITY GROUPS
MARYLAND

Carlot shipments of manufactured and industrial commodities from Maryland to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1 (1,000 lbs.)	Year 2 (1,000 lbs.)	Gain Year 2 Over Year 1 (Per- cent)	Year 3 (1,000 lbs.)	Gain Year 3 Over Year 2 (Per- cent)	Gain Year 3 Over Year 1 (Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	---	---	---	33	---	---
Tractors and Parts	10	32	220.0	50	56.3	400.0
Wagons and Wheels	---	---	---	25	---	---
Wire and Fencing	1,459	2,915	99.8	2,452	-15.9	68.1
Total Agricultural Group	1,469	2,947	100.6	2,560	-13.1	74.3
<u>DOMESTIC AND PERSONAL GROUP</u>						
Cabinets and Kitchen Cabinets	14	39	178.6	12	-69.2	-14.3
Chairs	---	---	---	17	---	---
Furniture, Mixed	145	132	-9.0	204	54.5	40.7

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1000 lbs)	(1000 lbs)	(Per- cent)	(1000 lbs)	(Per- cent)	(Per- cent)
<u>DOMESTIC AND PERSONAL GROUP Continued</u>						
Refrigerators	60	19	-68.3	151	694.7	151.7
Sewing Machines	--	--	--	22	--	--
Stoves and Heaters	18	104	477.8	40	-61.5	122.2
Bedding	--	47	--	--	--	--
Carpets and Linoleum	128	89	-30.5	101	13.5	-21.1
Cotton Piece Goods and Batting	30	62	106.7	--	--	--
Electrical Appliances	12	14	16.7	62	342.9	416.7
Plumbing Fixtures and Fittings	248	165	-33.5	22	-86.7	-91.1
Shoe Polish	--	50	--	113	126.0	--
Woolens	84	--	--	--	--	--
Clothing	137	131	-4.4	159	21.4	16.1
Cereals	70	73	4.3	40	-45.2	-42.9
Cereal Beverages	--	30	--	30	0.0	--
Confectionery	87	--	--	72	--	-17.3
Gelatine	--	160	--	--	--	--
Sauces and Extracts	622	861	38.4	2,423	181.4	289.5
Spaghetti	38	--	--	--	--	--
Beer	32	1,035	3,134.4	317	-69.4	890.6
Fruit and Vegetable Juices	--	53	--	231	335.8	--
Ginger Ale and other Beverages	182	41	-77.5	31	-24.4	-83.0
Liquor	223	5,235	2,247.5	8,099	54.7	3,531.8
Arms and Ammunition	52	--	--	72	--	38.5
Toilet Preparations	11	--	--	40	--	263.6
Toys	--	11	--	--	--	--
Total Domestic and Personal Group	2,193	8,351	280.8	12,258	46.8	459.0
<u>INDUSTRIAL AND COMMERCIAL GROUP</u>						
Steel and Iron Products	26,064	18,807	-27.9	17,681	-6.0	-32.2
Air Filters and Blowers	--	30	--	--	--	--
Boilers, Tubes, and Parts	--	302	--	24	-92.1	--
Cables	138	282	104.3	143	-49.3	3.6
Engines (gas, Steam, etc.)	108	14	-87.0	--	--	--
Machinery, Commercial and Industrial	176	420	138.6	690	64.3	292.0

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1000 lbs)	(1000 lbs)	(Per- cent)	(1000 lbs)	(Per- cent)	(Per- cent)
INDUSTRIAL AND COMMERCIAL GROUP Continued						
Machinery, Electrical	--	--	--	174	--	--
Machinery, Refrigerating	44	20	-54.6	21	5.0	-52.3
Machinery, Road	45	--	--	74	--	64.4
Machinery Parts	26	109	319.2	73	-33.0	180.8
Tools and Equipment	93	146	57.0	224	53.4	140.9
Baskets, Canvas	--	--	--	32	--	--
Furniture, Metal	--	--	--	15	--	--
Store Fixtures	--	90	--	--	--	--
Burlap and Bagging	112	134	19.6	128	-4.5	14.3
Bottle Caps	1,514	2,082	37.5	2,211	6.2	46.0
Cloth	356	517	45.2	691	33.7	94.1
Cork and Products	--	25	--	24	-4.0	--
Cotton	30	41	36.7	--	--	--
Cotton Factory Supplies	219	141	-35.6	--	--	--
Felt and Carpeting	--	73	--	123	68.5	--
Hides and Pelts	164	712	334.1	1,086	52.5	562.2
Malt and Malt Syrup	298	1,194	300.7	1,951	63.4	554.7
Oils, fish and animal	--	--	--	186	--	--
Oils, Vegetable	54	--	--	32	--	-40.8
Ore	--	--	--	6,446	--	--
Tallow	--	12	--	--	--	--
Tanner's Extracts and Oils	65	116	78.5	--	--	--
Tobacco	--	349	--	1,381	295.7	--
Waste, Sweepings, etc.	--	28	--	30	7.1	--
Yarn	12	19	58.3	129	578.9	975.0
Asbestos and Products	42	231	450.0	99	-57.2	135.7
Asphalt and Products	10,098	10,177	0.8	14,835	45.8	46.9
Brick	699	968	38.5	1,024	5.8	46.5
Building Material, Miscellaneous	160	109	-31.9	283	159.6	76.9
Cement and Concrete Products	5,724	3,278	-42.7	5,630	71.8	-1.7
Insulation	73	157	115.1	36	-77.1	-50.7
Lumber and Products	1,355	1,440	6.3	902	-37.4	-33.4
Shingles	288	--	--	87	--	-69.8
Stone and Products	1,761	857	-51.3	1,934	125.7	9.8
Aluminum and Products	--	33	--	--	--	--
Copper and Brass Products	416	636	52.9	1,685	164.9	305.0
Lead and Products	500	340	-32.0	168	-50.6	-66.4

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1000 lbs)	(1000 lbs)	(Per- cent)	(1000 lbs)	(Per- cent)	(Per- cent)
<u>INDUSTRIAL AND COMMERCIAL GROUP</u> Continued						
Zinc	--	103	--	--	--	--
Total Industrial and Commercial Group	50,634	43,992	-13.1	60,252	37.0	19.0
<u>GENERAL GROUP</u>						
Airplanes and Parts	--	11	--	--	--	--
Alcohol and Anti-Freeze	1,048	3,471	231.2	3,878	11.7	270.0
Automobiles	42	38	-9.5	129	239.5	207.1
Auto Parts and Accessories	2,575	3,226	25.3	1,450	-55.1	-43.7
Batteries	96	--	--	--	--	--
Gasoline, Oil, and other Petroleum Products	90,677	80,199	-11.6	94,234	17.5	3.9
Trucks	15	33	120.0	305	824.2	1,933.3
Coke	67	--	--	--	--	--
Magazines, Books, and other Advertising material	--	116	--	--	--	--
Paper and Products	2,321	5,133	121.2	5,337	4.0	129.9
Hospital Supplies	41	--	--	--	--	--
Organs and Equipment	14	--	--	38	--	171.4
Clay and Products	11	981	8,818.2	760	-22.5	6,809.1
Drugs and Chemicals	2,221	6,083	173.9	13,105	115.4	490.0
Explosives	94	21	-77.7	11	-47.6	-88.3
Glass and Glassware	416	1,551	272.8	2,843	83.3	583.4
Leather and Leather Goods	25	--	--	25	--	0.0
Millwork and Cooperage	211	177	-16.1	399	125.4	89.1
Nails	1,397	2,225	59.3	1,669	-25.0	19.5
Paints and Varnishes	246	213	-13.4	613	187.8	149.2
Rubber and Products	30	276	820.0	176	-36.2	486.7
Soap	640	1,171	83.0	1,848	57.8	188.8
Tin and Products	11,807	11,084	-6.1	15,633	41.0	32.4
Twine and Rope	192	--	--	154	--	-19.8
Total General Group	114,186	116,009	1.6	142,607	22.9	24.9
Grand Total	168,482	171,299	1.7	217,677	27.1	29.2

Massachusetts

September, 1936-

United States Department of Agriculture
Agricultural Adjustment Administration

Commodity Survey Series

U. S. Department of Agriculture

Carlot railway shipments of manufactured and commercial commodities originating in the State of Massachusetts and delivered to 32 predominantly agricultural States west of the Mississippi and south of the Potomac and Ohio Rivers, increased 42.5 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

The fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of the 16 principal railroads delivering the shipments to the agricultural States.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after beginning of these measures, was designated as "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from Massachusetts, together with the changes from year to year, were as follows: In year 1 the total was 73,296,000 pounds; in year 2 it was 103,428,000 pounds or a gain of 41.1 percent; in year 3 it was 104,446,000 pounds, a gain of 1 percent over the year 2 poundage and of 42.5 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized States east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Massachusetts and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as highly accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in Massachusetts and shipped by the carload to the agricultural areas were classified in this study, according to their principle uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from Massachusetts in the agricultural group showed the greatest gain among the four groups, in the 2-year period, with an advance of 177.7 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 894,000 pounds in year 1, to 2,140,000 pounds in year 2, and to 2,483,000 pounds in year 3. Shipments in year 2 gained 139.4 percent over those in year 1, and shipments in year 3 gained 16 percent over those in year 2. Shipments of wire and fencing, one of the items in this group, showed a rise from 732,000 pounds in year 1 to 2,327,000 pounds in year 3, an advance of 217.9 percent.

The greatest percentage gain in any single sub-group was in refrigeration machinery of which 574,000 pounds was forwarded in carlot shipments from Massachusetts to agricultural areas in year 3 as compared with 24,000 pounds in year 1, and 231,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 2291.7 percent.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

Shipments of commodities in the general group gained 60.4 percent in year 3 as compared with year 1. This group showed a gain of 27.3 percent in year 2 over year 1, a gain of 26 percent in year 3 as compared with year 2. Weights of shipments amounted to 22,982,000 pounds in year 1, to 29,248,000 pounds in year 2, and to 36,855,000 pounds in year 3. Shipments of bicycles, motorcycles, etc., one of the items in this group, showed the greatest percentage gain in the 2-year period, totaling 381,000 pounds in year 3 as compared to 31,000 pounds in year 1, a gain of 1129 percent. Next came those of alcohol and anti-freeze which rose from 72,000 to 587,000 pounds, or 715.3 percent, and those of soap which increased from 781,000 pounds in year 1 to 5,679,000 in year 3, or 627.1 percent. Also important was the increase in shipments of drugs and chemicals which went from 1,991,000 to 5,200,000 pounds, a rise of 161.2 percent, and those of rubber and products, which advanced 151.6 percent, or from 692,000 to 1,741,000 pounds in the same 2-year period.

The domestic and personal group containing 31 sub-groups of commodities showed increases of 50.3 percent in year 3 as compared with year 1, 15.4 percent in year 3 over year 2, and 30.3 percent in year 2 over year 1. Weights of shipments in this group amounted to 9,514,000 pounds in year 1, to 12,393,000 pounds in year 2, and to 14,300,000 pounds in year 3. In this group the greatest percentage increase was shown by radios and parts which

advanced from 30,000 pounds in year 1, to 329,000 pounds in year 3, or 996.7 percent. Other notable rises in shipments in the 2-year period were recorded by gelatin which rose from 12,000 to 100,000 pounds, or 733.3 percent; by cabinets and kitchen cabinets, which went from 13,000 to 76,000 pounds, an increase of 484.6 percent; by shoe polish, which advanced from 40,000 to 189,000 pounds, or 372.5 percent; and by stoves and heaters which increased 123.9 percent, or from 519,000 to 1,162,000 pounds.

The industrial and commercial group, with 48 subdivisions, showed a gain of 27.3 percent in year 3 over year 1. In this group year 3 showed a decrease of 14.8 percent as compared to year 2, while year 2 had showed an increase of 49.5 percent over year 1. Weights of shipments in this group amounted to 39,906,000 pounds in year 1, to 59,647,000 in year 2, and to 50,808,000 in year 3. After refrigeration machinery shipments, those of cement and concrete products in year 3 showed the greatest increase of the items in this group, rising 1709.1 percent over those in year 1, or from 44,000 to 796,000 pounds, followed by insulation shipments which rose 1,123.5 percent, or from 68,000 to 832,000 pounds. Other increases of importance were those of machinery parts which advanced from 288,000 pounds in year 1 to 1,393,000 pounds in year 3, or 383.7 percent; those of cables from 120,000 to 524,000 pounds, or 336.7 percent; in the period mentioned; and those of electrical machinery from 2,037,000 to 5,629,000 pounds, or 176.3 percent. Shipments of copper and brass products increased from 698,000 to 1,373,000 pounds, or 96.7 percent; those of steel and iron products from 923,000 to 1,641,000 pounds, or 77.8 percent; and those of felt and carpeting from 695,000 to 1,243,000 pounds, or 78.8 percent.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases, for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

MASSACHUSETTS

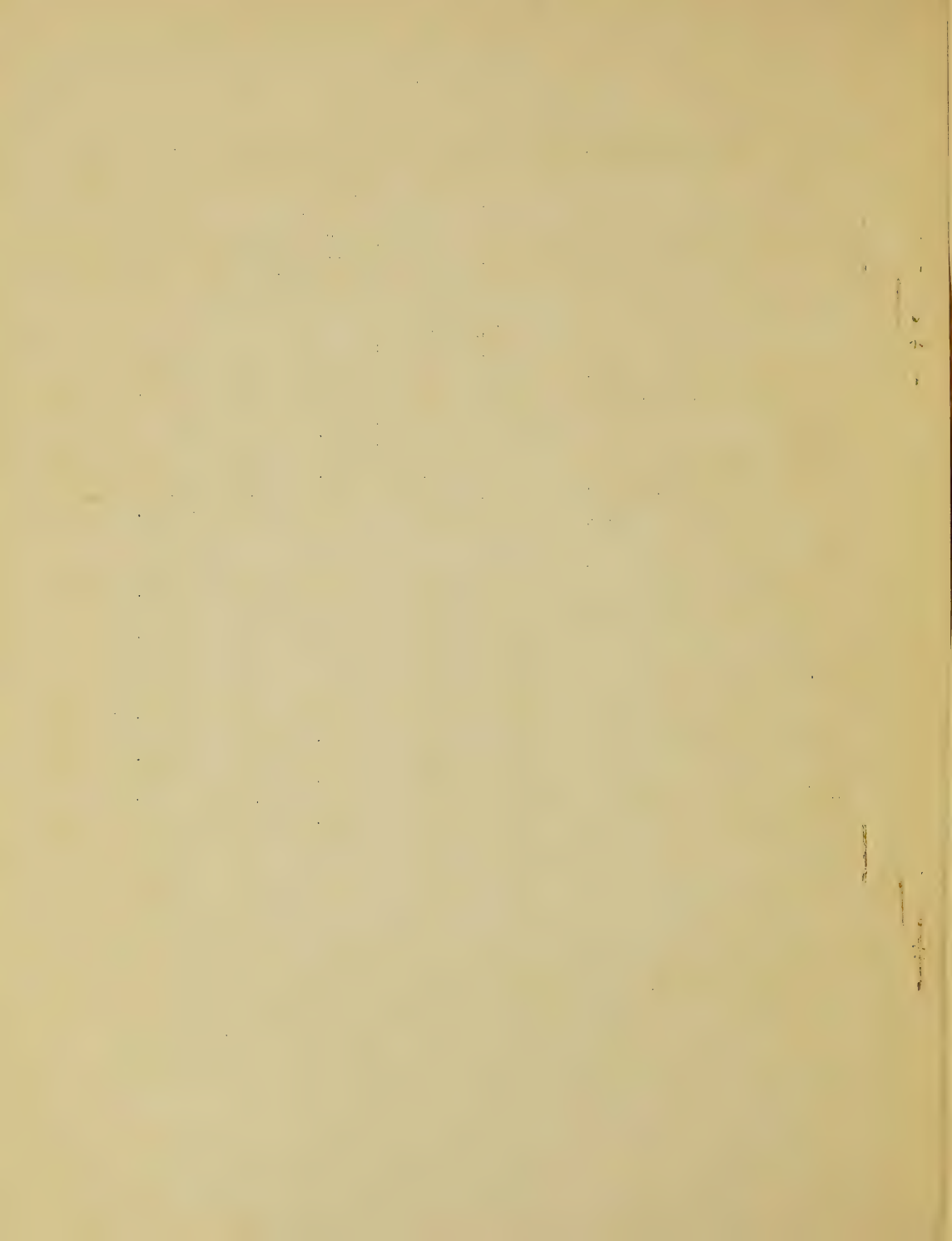
Carlot shipments of manufactured and industrial commodities from Massachusetts to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
AGRICULTURAL GROUP						
Farm Implements and Machinery	146	110	-24.7	84	-23.6	-42.5
Wagons and Wheels	16	--	--	72	--	350.0
Wire and Fencing	732	2,030	177.3	2,327	14.6	217.9
Total Agricultural	894	2,140	139.4	2,483	16.0	177.7
DOMESTIC AND PERSONAL GROUP						
Cabinets and Kitchen Cabinets	13	84	546.2	76	-9.5	484.6
Chairs	165	159	-3.6	299	88.1	81.2
Electric Lamps and Fixtures	33	--	--	--	--	--
Furniture, Mixed	642	633	-1.4	622	-1.7	-3.1
Radios and Parts	30	378	1,160.0	329	-13.0	996.7
Refrigerators	--	194	--	230	18.6	--
Sewing Machines	--	--	--	25	--	--
Stoves and Heaters	519	662	27.6	1,162	75.5	123.9
Tables	--	--	--	40	--	--
Bedding	11	37	236.4	--	--	--
Carpets and Linoleum	468	728	55.6	710	-2.5	51.7
Cotton Piece Goods and Batting	1,932	1,081	-44.1	1,684	55.8	-12.8
Dishes	--	39	--	--	--	--
Electrical Appliances	369	176	-52.3	400	127.3	8.4
Furnaces	--	35	--	--	--	--
Lawn Mowers	30	107	256.7	33	-69.2	10.0

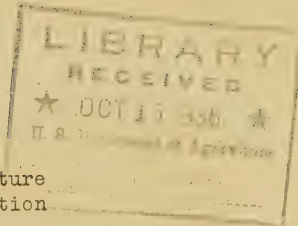
Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
DOMESTIC AND PERSONAL GROUP (Continued)						
Plumbing Fixtures & Fittings	49	30	-38.8	72	140.0	46.9
Shoe Polish	40	407	917.5	189	-53.6	372.5
Woolens	1,070	1,813	69.4	1,228	-32.3	14.8
Clothing	14	26	85.7	--	--	--
Confectionery	2,133	2,670	25.2	2,572	-3.7	20.6
Gelatin	12	42	250.0	100	138.1	733.3
Sauces and Extracts	36	40	11.1	--	--	--
Tapioca	254	205	-19.3	109	-46.8	-57.1
Beer	81	--	--	95	--	17.3
Fruit and Vegetable Juices	--	--	--	62	--	--
Liquor	--	1,049	--	2,573	145.3	--
Ginger Ale and Other Beverages	1,396	1,402	0.4	1,549	10.5	11.0
Arms and Ammunition	--	35	--	--	--	--
Toilet Preparations	--	68	--	--	--	--
Toys	217	293	35.0	141	-51.9	-35.0
Total Domestic and Personal Group	9,514	12,393	30.3	14,300	15.4	50.3
INDUSTRIAL AND COMMERCIAL GROUP						
Steel and Iron Products	923	2,163	134.3	1,641	-24.1	77.8
Air Filters and Blowers	21	82	290.5	--	--	--
Boilers, Tubes and Parts	60	78	30.0	61	-21.8	1.7
Cables	120	420	250.0	524	24.8	336.7
Cotton Gins and Parts	135	200	48.1	133	-33.5	-1.5
Engines (gas, steam, etc.)	295	125	-57.6	146	16.8	-50.5
Machinery, Commercial and Industrial	22,513	36,486	62.1	25,429	-30.3	13.0
Machinery, Electrical	2,037	4,496	120.7	5,629	25.2	176.3
Machinery, Refrigeration	24	231	862.5	574	148.5	2291.7
Machinery, Road	20	--	--	--	--	--
Machinery, Parts	288	638	121.5	1,393	118.3	383.7
Tools and Equipment	117	222	89.7	63	-71.6	-46.2
Furniture, Metal	--	--	--	13	--	--
Store Fixtures	12	15	25.0	--	--	--
Abrasives	--	61	--	--	--	--

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
INDUSTRIAL AND COMMERCIAL GROUP (Continued)						
Animal hair	--	--	--	30	--	--
Burlap and Bagging	1,565	1,040	-33.6	654	-37.1	-58.2
Cloth	472	276	-41.5	460	66.7	-2.6
Clothing Loops	--	50	--	--	--	--
Cork and Products	--	--	--	32	--	--
Cotton	42	885	2,007.1	134	-84.9	219.0
Cotton Factory Supplies	146	288	97.3	38	-86.8	-74.0
Felt and Carpeting	695	1,359	95.5	1,243	-8.5	78.8
Glue and Sizing	254	320	26.0	150	-53.1	-41.0
Hides and Pelts	320	201	-37.2	--	--	--
Malt and Malt Syrup	--	--	--	78	--	--
Oils, Fish and Animal	30	33	10.0	176	433.3	486.7
Oils, Vegetable	10	--	--	--	--	--
Tallow	--	--	--	12	--	--
Tanners Extracts and Oils	13	125	861.5	36	-71.2	176.9
Tobacco	193	25	-87.1	87	248.0	-54.9
Waste, Sweepings etc.	798	951	19.2	2,385	150.8	198.9
Yarn	483	221	-54.2	192	-13.1	-60.3
Asbestos Products	642	139	-78.4	509	266.2	-20.7
Asphalt and Products	3,401	4,043	18.9	5,174	28.0	52.1
Bricks	--	13	--	--	--	--
Building Material, Misc.	1,884	1,772	-6.0	54	-97.0	-97.1
Insulation	68	31	-54.4	832	2583.9	1123.5
Cement and Concrete Products	44	153	247.7	796	420.3	1709.1
Coal Tar, Pitch, and Products	53	--	--	--	--	--
Lumber and Products	276	308	11.6	316	2.6	14.5
Sand	--	--	--	29	--	--
Shingles	433	--	--	106	--	-75.5
Stone and Products	658	641	-2.6	51	-92.1	-92.3
Aluminum and Products	--	355	--	145	-59.2	--
Copper and Brass Products	698	1,190	70.5	1,373	15.4	96.7
Lead and Products	148	11	-92.6	110	900.0	-25.7
Zinc and Products	15	--	--	--	--	--
Total Industrial and Commercial Group	39,906	59,647	49.5	50,808	-14.8	27.3

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
GENERAL GROUP						
Automobiles	--	10	--	20	100.0	--
Auto Parts and Accessories	5,507	7,903	43.5	6,166	-22.0	12.0
Trucks	79	15	-81.0	78	420.0	-1.3
Batteries	240	168	-30.0	--	--	--
Gasoline, Oil, and other						
Petroleum Products	68	238	250.0	267	12.2	292.6
Alcohol and Anti-Freeze	72	33	-54.2	587	1678.8	715.3
Bicycles, Motorcycles, etc.	31	297	858.1	381	28.3	1129.0
Paper and Products	8,038	10,168	26.5	10,133	-0.4	26.1
Magazines, Books, and other Advertising Material	231	87	-62.3	848	874.7	267.1
School Furniture and Supplies	208	138	-33.7	87	-37.0	-58.2
Organs and Equipment	12	--	--	--	--	--
Hospital Supplies	40	--	--	--	--	--
Drugs and Chemicals	1,991	2,541	27.6	5,200	104.6	161.2
Glass and Glassware	214	39	-81.8	105	169.2	-50.9
Rubber and Products	692	946	36.7	1,741	84.0	151.6
Leather and Leather Goods	688	1,180	71.5	1,020	-13.6	48.3
Nails	82	162	97.6	76	-53.1	-7.3
Millwork and Cooperage	1,614	1,534	-5.0	1,784	16.3	10.5
Twine and Rope	1,675	1,611	-3.8	1,634	1.4	-2.5
Paints and Varnish	100	308	208.0	318	3.2	218.0
Ink	560	575	2.7	431	-25.1	-23.0
Explosives	59	--	--	--	--	--
Soap	781	1,103	41.2	5,679	414.9	627.1
Tin and Products	--	72	--	185	156.9	--
Clay Products	--	120	--	115	-4.2	--
Total						
General Group	22,982	29,248	27.3	36,855	26.0	60.4
Grand Total	73,296	103,428	41.1	104,446	1.0	42.5



Commodity Survey Series
Michigan
September 1936



United States Department of Agriculture
Agricultural Adjustment Administration
Division of Information.

Carlot railway shipments of manufactured and commercial commodities originating in the State of Michigan and delivered to 32 predominantly agricultural States west of the Mississippi and south of the Potomac and Ohio Rivers, increased 92.7 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated "year 2"; and the 12 months ended June 30, 1935, as "year 3".

Total weight of carlot shipments from Michigan, together with the changes from year to year, were as follows: In year 1 the total was 1,098,952,000 pounds; in year 2 it was 1,620,924,000 pounds or a gain of 47.5 percent; in year 3 it was 2,117,662,000 pounds, a gain of 30.6 percent over the year 2 poundage and of 92.7 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Michigan and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the total weight of shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in Michigan and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural" group made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from Michigan in the general group showed the greatest gain among the four groups, in the 2-year period, with an advance of 103.3 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 865,065,000 pounds in year 1, to 1,317,547,000 pounds in year 2, and to 1,758,557,000 pounds in year 3. Shipments in year 2 gained 52.5 percent over those in year 1, and shipments in year 3 gained 33.5 percent over those in year 2. Carlot shipments of coke advanced 484.6 percent in the two years, and shipments of rubber and products gained 349.5 percent in year 3 as compared with year 1. In this group were five commodity items on which carlot shipments decreased. These were magazines and books, leather and leather goods, twine and rope, ink, and explosives.

The greatest percentage gain in any single commodity item was in aluminum and products of which 358,000 pounds was forwarded in carlot shipments from Michigan to agricultural areas in year 3 as compared with 11,000 pounds in year 1, and 77,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 3,154.5 percent.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

As might be expected, shipments of commodities in the agricultural group were not far behind the general group, gaining 70.0 percent in year 3 as compared with year 1. This group showed a gain of 50.9 percent in year 2 over year 1, a gain of 12.7 percent in year 3 as compared with year 2. Weights of shipments amounted to 2,613,000 pounds in year 1, to 3,944,000 pounds in year 2, and to 4,443,000 pounds in year 3. Shipments of tractors and parts showed the greatest gain in the 2-year period, totaling 425,000 pounds in year 3 as compared to 105,000 pounds in year 1, a gain of 304.8 percent.

The industrial and commercial group containing 52 commodity items showed increases of 66.4 percent in year 3 as compared with year 1, of 17.1 percent in year 3 over year 2, and 42.0 percent in year 2 over year 1. Weights of shipments in this group amounted to 125,229,000 pounds in year 1, to 177,842,000 pounds in year 2, and to 208,334,000 pounds in year 3. Carlot shipments of tobacco from Michigan in year 3 had advanced 2,445.5 percent over shipments in year 1. Weight of shipments of air filters and blowers gained 606.9 percent in the two years.

The domestic and personal group, with 32 commodity items showed a gain of 38.0 percent in year 3 over year 1. In this group year 3 showed an increase of 20.3 percent as compared to year 2, while year 2 had gained

14.7 percent over year 1. Weights of shipments in this group amounted to 106,045,000 pounds in year 1, to 121,591,000 in year 2 and 146,328,000 in year 3. Carlot shipments of liquor from Michigan increased 933.3 percent in year 3 as compared with year 1. Shipments of ginger ale and other beverages gained 683.7 percent in the two years.

Although the percentage increase in shipments of prepared cereal foods was only 10.1 percent, the weight of carlot railway shipments from Michigan was 8,064,000 pounds more in year 3 than in year 1.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases, for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington & Quincy; Chicago, Milwaukee, St. Paul & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY BY COMMODITY GROUPS
MICHIGAN

Carlot shipments of manufactured and industrial commodities from Michigan to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1 ended June 30, 1933; and year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
AGRICULTURAL GROUP						
Farm Implements and Machinery	1,230	2,108	71.4	2,967	40.7	141.2
Tractors and Parts	105	113	7.6	425	276.1	304.8
Brooders and Incubators	--	13	--	15	15.4	--
Fence Posts, Steel	124	333	168.5	93	-72.1	-25.0
Harness and Saddlery	--	170	--	37	-78.2	--
Wagons and Wheels	409	339	-17.1	133	-60.8	-67.5
Wire and Fencing	745	868	16.5	773	-11.0	3.8
Total Agricultural Group	2,613	3,944	50.9	4,443	12.7	70.0
DOMESTIC AND PERSONAL GROUP:						
Book Cases and Desks	68	--	--	53	--	-22.1
Cabinets and Kitchen Cabinets	89	155	74.2	164	5.8	84.3

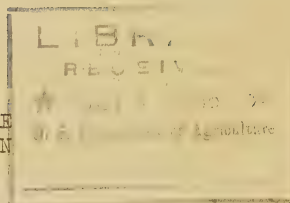
Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
DOMESTIC AND PERSONAL GROUP						
Chairs	663	750	13.1	1,017	35.6	53.4
Electric Lamps and Fixtures	69	95	37.7	--	--	--
Furniture, Mixed	4,222	6,435	52.4	7,957	23.7	88.5
Radios and Parts	121	76	-37.2	63	-17.1	-47.9
Refrigerators	10,209	13,191	29.2	27,232	106.4	166.7
Stoves and Heaters	2,669	4,969	86.2	6,177	24.3	131.4
Tables	131	153	16.8	144	- 5.9	9.9
Bedding	121	227	87.6	272	19.8	124.8
Carpets and Linoleum	324	454	40.1	367	-19.2	13.3
Cotton Piece Goods and Batting	51	28	-45.1	154	450.0	202.0
Dishes	165	120	-27.3	35	-70.8	-78.8
Electrical Appliances	156	37	-76.3	192	418.9	23.1
Furnaces	2,504	4,172	66.6	6,370	52.7	154.4
Matches	--	--	--	31	--	--
Plumbing Fixtures and Fittings	773	856	10.7	1,158	35.3	49.8
Woolens	61	75	23.0	23	-69.3	-62.3
Clothing	--	64	--	25	-60.9	--
Cereals	80,232	83,604	4.2	88,296	5.6	10.1
Cereal Beverages	682	664	-2.6	522	-21.4	-23.5
Confectionery	173	232	34.1	128	-44.8	-26.0
Sauces and Extracts	510	466	-8.6	517	10.9	1.4
Spaghetti	121	302	149.6	40	-86.8	-67.0
Beer	39	599	1435.9	98	-83.6	151.3
Fruit and Vegetable Juices	886	2,307	160.4	1,966	-14.8	121.9
Liquor	150	173	15.3	1,550	796.0	933.3
Ginger Ale and Other Beverages	184	628	241.3	1,442	129.6	683.7
Arms and ammunition	52	162	211.5	47	-71.0	-9.6
Toilet Preparations	71	243	242.3	33	-86.4	-53.5
Toys	423	294	-30.5	155	-47.3	-63.4
Undertakers' Supplies	126	60	-52.4	100	66.7	-20.6
Total Domestic and Personal Group	106,045	121,591	14.7	146,328	20.3	38.0
COMMERCIAL AND INDUSTRIAL GROUP						
Steel & Iron Products	14,282	26,772	87.5	26,222	-2.1	83.6
Air Filters & Blowers	72	108	50.0	509	371.3	606.9

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
COMMERCIAL AND INDUSTRIAL GROUP						
Boilers, Tubes, & Parts	919	1,257	36.8	1,819	44.7	97.9
Cables	11	407	3,600.0	--	--	--
Cotton Gins and Parts	21	--	--	103	--	390.5
Engines (gas, steam, etc.)	47,335	64,866	37.0	94,658	45.9	100.0
Machinery, Commercial and Industrial	4,291	5,949	38.6	4,977	-16.3	16.0
Machinery, Electrical	788	1,866	136.8	3,730	99.9	373.4
Machinery, Refrigeration	6,039	10,152	68.1	6,493	-36.1	7.5
Machinery, Road	350	787	124.9	929	18.0	165.4
Machinery, Parts	284	673	137.0	537	-20.2	89.1
Tools and Equipment	404	1,200	197.0	1,330	10.8	229.2
Baskets, Canvas	--	16	--	26	62.5	--
Furniture, Metal	199	185	-7.0	543	193.5	172.9
Stokers; Mechanical	237	221	-6.8	407	84.2	71.7
Store Fixtures	94	92	-2.1	166	80.4	76.6
Theatre Chairs	578	570	-1.4	481	-15.6	-16.8
Switchboards	--	--	--	97	--	--
Abrasives	--	--	--	13	--	--
Animal Hair	--	18	--	70	288.9	--
Burlap and Bagging	667	612	-9.6	351	-42.7	-48.2
Cloth	--	181	--	187	3.3	--
Clothing Loops	--	17	--	--	--	--
Cork	382	929	143.2	889	-4.3	132.7
Cotton	29	--	--	--	--	--
Cotton Factory Supplies	25	26	4.0	--	--	--
Felt and Carpeting	78	27	-65.4	258	885.6	230.8
Glue and Sizing	245	479	95.5	--	--	--
Hides and Pelts	273	36	-86.8	177	391.7	-35.2
Malt and Malt Syrup	--	--	--	338	--	--
Oils, Fish and Animal	170	220	29.4	438	99.1	157.6
Ore	319	402	26.0	246	-38.8	-22.9
Tallow	--	--	--	229	--	--
Tanners Extracts and Oils	--	38	--	82	115.8	--
Tobacco	11	183	1,563.6	280	53.0	2445.5
Waste, Sweepings, etc.	--	40	--	128	220.0	--
Yarn	14	80	471.4	--	--	--
Asbestos Products	29	156	437.9	13	-91.7	-55.2
Asphalt and Products	389	540	38.8	341	-36.9	-12.3
Bricks	--	--	--	172	--	--
Building Material, Miscellaneous	8,793	11,909	35.4	14,039	17.9	59.7
Insulation	73	224	206.8	170	-24.1	132.9

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
DOMESTIC AND PERSONAL GROUP						
Cement and Concrete Products	6,316	1,665	-73.6	1,130	-32.1	-82.1
Coal Tar, Pitch, etc.	660	502	-23.9	550	9.6	-16.7
Lumber and Products	22,658	32,504	43.5	35,483	9.2	56.6
Sand	119	803	574.8	75	-90.7	-37.0
Shingles	--	305	--	113	-63.0	--
Stone and Products	7,048	9,364	32.9	7,874	-15.9	11.7
Aluminum and Products	11	77	600.0	358	364.9	3154.5
Copper and Brass Products	856	1,226	43.2	1,152	-6.0	34.6
Lead and Products	150	158	5.3	101	-36.1	-32.7
Total Commercial and Industrial Group	125,229	177,842	42.0	208,334	17.1	66.4
GENERAL GROUP						
Automobiles	156,023	334,905	114.7	453,356	35.4	190.6
Auto Parts and Accessories	459,063	670,488	46.1	1,006,035	50.0	119.1
Trucks	8,993	14,916	65.9	12,724	-14.7	41.5
Airplanes and Parts	10	41	310.0	10	-75.6	0.0
Batteries	95	273	187.4	169	-38.1	77.9
Gasoline, Oil and other Petroleum Products	11,092	6,531	-41.1	12,843	96.6	15.8
Alcohol and Anti-Freeze	--	238	--	233	-2.1	--
Bicycles, Motorcycles, etc.	12	11	-8.3	--	--	--
Coke	188	372	97.9	1,099	195.4	484.6
Paper and Products	69,994	87,768	25.4	81,102	-7.6	15.9
Magazines, Books, and other Advertising Material	232	287	23.7	90	-68.7	-61.2
School Furniture and Supplies	306	292	-4.6	343	17.5	12.1
Hospital Supplies	33	126	281.8	61	-51.6	84.8
Drugs and Chemicals	141,286	178,798	26.6	160,204	-10.4	13.4
Glass and Glassware	1,262	2,433	92.8	3,589	47.5	184.4
Rubber and Products	109	355	225.7	490	38.0	349.5
Leather and Leather Goods	761	512	-32.7	48	-90.6	-93.7
Nails	--	528	--	87	-83.5	--
Millwork and Cooperage	3,614	3,121	-13.7	4,994	60.0	38.2
Twine and Rope	1,174	527	-55.1	569	8.0	-51.5
Paints and Varnishes	7,361	10,797	46.7	16,493	52.8	124.1
Ink	387	282	-27.1	168	-40.4	-56.6
Explosives	594	567	-4.6	577	1.8	-2.9
Soap	1,539	1,756	14.1	2,195	25.0	42.6
Tin and Products	635	922	45.2	742	-19.5	16.9
Clay Products	302	701	132.1	336	-52.1	11.3
Total General Group	865,065	1,317,547	52.3	1,758,557	33.5	103.3
Grand Total	1,098,952	1,620,924	47.5	2,117,662	30.6	92.7

Commodity Survey Series
NEW HAMPSHIRE
September, 1936

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL ADJUSTMENT ADMINISTRATION
Division of Information



Total weight of carlot railway shipments of manufactured and commercial commodities originating in the State of New Hampshire and delivered to 32 predominantly agricultural States west of the Mississippi and south of the Potomac and Ohio Rivers, decreased 26.3 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933. Certain important commodities, however, showed significant gains.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from New Hampshire, together with the changes from year to year, were as follows: In year 1 the total was 12,061,000 pounds; in year 2 it was 11,457,000 pounds or a loss of 5 percent; in year 3 it was 8,896,000 pounds, a loss of 22.4 percent over the year 2 poundage and of 26.3 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. Shipments of some of the goods produced in New Hampshire and sent to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as highly accurate both as to aggregate tonnages and the trends which they display.

The shipments on which waybills were studied originated on more than 125

railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

The hundreds of articles produced in New Hampshire and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from New Hampshire in the general group showed a gain in the 2-year period of 16.8 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 5,322,000 pounds in year 1, to 6,180,000 pounds in year 2, and to 6,218,000 pounds in year 3. Shipments in year 2 gained 16.1 percent over those in year 1, and shipments in year 3 gained 0.6 percent over those in year 2. In this group nails showed the greatest increase, followed by drugs and chemicals, millwork and cooperage, and paper and products. Shipments of nails rose from 22,000 pounds in year 1 to 127,000 pounds in year 3, or 477.3 percent; those of drugs and chemicals from 20,000 to 39,000 pounds, or 95 percent; those of millwork and cooperage from 456,000 to 745,000 pounds, or 63.4 percent; and those of paper and products from 4,824,000 to 5,246,000 pounds, or 8.7 percent.

The greatest percentage gain in any single sub-group was in burlap and bagging of which 176,000 pounds was forwarded in carlot shipments from New Hampshire to agricultural areas in year 3 as compared with 24,000 pounds in year 1, and 100,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 633.3 percent.

Shipments of commodities in the domestic and personal group showed a poundage loss of 62.8 percent in year 3 as compared with year 1. Shipments amounted to 2,097,000 pounds in year 1, to 1,671,000 pounds in year 2, and to 780,000 pounds in year 3.

In this group, however, shipments of woolsens rose 152.4 percent from 42,000 pounds in year 1 to 106,000 pounds in year 3. On the other hand, shipments of cotton piece goods and batting showed a loss of 68.3 percent in the 2-year period, dropping from 1,899,000 pounds in year 1 to 602,000 pounds in year 3.

The industrial and commercial group as a whole, with 18 sub-groups of commodities, showed a decrease of 58.4 percent in year 3 as compared with year 1. Weights of shipments in this group amounted to 4,526,000 pounds in year 1, to 3,606,000 pounds in year 2, and to 1,883,000 pounds in year 3.

In this group, however, steel and iron products gained slightly from year 1 to year 3. The gain, from 279,000 pounds to 283,000 pounds, amounted to 1.4 percent.

The agricultural group, with two subdivisions showed a loss of 87.1 per cent in year 3 from year 1, when the 116,000 pounds of farm implements and machinery shipped in year 1 is compared with 15,000 pounds of wire and fencing shipped in year 3.

Comparisons for all groups and all commodities are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases for both year 2 and year 3.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

NEW HAMPSHIRE

Carlot shipments of manufactured and industrial commodities from New Hampshire, to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in years, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1 (1,000 lbs)	Year 2 (1,000 lbs)	Gain Year 2 Over Year 1 (Per- cent)	Year 3 (1,000 lbs)	Gain Year 3 Over Year 2 (Per- cent)	Gain Year 3 Over Year 1 (Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	116	--	--	--	--	--
Wire and Fencing	--	--	--	15	--	--
<u>Total Agricultural Group</u>	116	--	--	15	--	-87.1
<u>DOMESTIC AND PERSONAL GROUP</u>						
Chairs	--	22	--	10	-54.6	--
Furniture, Mixed	73	--	--	62	--	-15.1
Refrigerators	--	20	--	--	--	--
Cotton Piece Goods	--	--	--	--	--	--
and Batting	1,899	1,515	-20.2	602	-60.3	-68.3
Woolens	42	22	-47.6	106	381.8	152.4
Clothing	83	--	--	--	--	--
Beer	--	30	--	--	--	--
Liquor	--	62	--	--	--	--
<u>Total Domestic and Personal Group</u>	2,097	1,671	-20.3	780	-53.3	-62.8

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
INDUSTRIAL AND COMMERCIAL GROUP						
Steel and Iron Products	279	294	5.4	283	-3.8	1.4
Machinery, Commercial and Industrial	1,599	2,706	69.2	820	-69.7	-48.7
Machinery, Refrigerating	--	26	--	24	-7.7	--
Machinery, Parts	250	93	-62.8	87	-6.5	-65.2
Burlap and Bagging	24	100	316.7	176	76.0	633.3
Cloth	--	72	--	23	-68.1	--
Cork	--	--	--	64	--	--
Cotton	25	--	--	--	--	--
Cotton Factory Supplies	--	23	--	--	--	--
Glue and Sizing	42	--	--	--	--	--
Waste, Sweepings, etc.	137	24	-82.5	184	666.7	34.3
Yarn	--	10	--	88	780.0	--
Asbestos Products	47	--	--	--	--	--
Asphalt and Products	--	12	--	--	--	--
Insulation	--	61	--	--	--	--
Lumber and Products	186	26	-86.0	134	415.4	-28.0
Sand	--	117	--	--	--	--
Stone and Products	1,937	42	-97.8	--	--	--
Total Industrial and Commercial Group	4,526	3,606	-20.3	1,883	-47.8	-58.4
GENERAL GROUP						
Auto Parts and Accessories	--	144	--	23	-84.0	--
Batteries	--	28	--	--	--	--
Trucks	--	12	--	--	--	--
Paper and Products	4,824	4,532	-6.1	5,246	15.8	8.7
Drugs and Chemicals	20	--	--	39	--	95.0
Glass and Glassware	--	--	--	21	--	--
Nails	22	12	-45.5	127	958.3	477.3
Millwork and Cooperage	456	1,416	210.5	745	-47.4	63.4

(Continued)

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>GENERAL GROUP (Continued)</u>						
Paints and Varnishes	--	--	--	17	--	--
Tin and Products	--	24	--	--	--	--
Clay and Products	--	12	--	--	--	--
Total General Group	5,322	6,180	16.1	6,218	0.6	16.8
Grand Total	12,061	11,457	-5.0	8,896	-22.4	-26.3

Commodity Survey Series
New Jersey
September 1936

United States Department of Agriculture
Agricultural Adjustment Administration
Division of Information

Carlot railway shipments of manufactured and commercial commodities originating in the State of New Jersey and delivered to 32 predominantly agricultural states west of the Mississippi and south of the Potomac and Ohio Rivers, increased 67.5 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after beginning of these measures, was designated as "year 2"; and the 12-months ended June 30, 1935, as "year 3".

Total weight of carlot shipments from New Jersey together with the changes from year to year, were as follows: In year 1 the total was 96,193,000 pounds; in year 2 it was 132,490,000 pounds or a gain of 37.7 percent; in year 3 it was 161,095,000 pounds, a gain of 21.6 percent over the year 2 poundage and of 67.5 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in New Jersey and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of

the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in New Jersey and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups, each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from New Jersey in the domestic and personal group showed the greatest gain among the four groups, in the 2-year period, with an advance of 104.1 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 5,715,000 pounds in year 1, to 7,900,000 pounds in year 2, and to 11,666,000 pounds in year 3. Shipments in year 2 gained 38.2 percent over those in year 1, and shipments in year 3 gained 47.7 percent over those in year 2.

The greatest percentage gain in any single item, with the exception of liquor, was in insulation, of which 944,000 pounds were forwarded in carlot shipments from New Jersey to agricultural areas in year 3, as compared with 74,000 pounds in year 1, and 108,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 1,175.7 percent.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, but these were more than offset by the gains in other items.

Shipments of commodities in the agricultural group advanced 86.4 percent in year 3 as compared with year 1. This group showed a gain of 41.5 percent in year 2 over year 1, a gain of 31.7 percent in year 3 as compared with year 2. Weight of shipments in the group amounted to 815,000 pounds in year 1, to 1,153,000 pounds in year 2, and to 1,519,000 pounds in year 3.

Shipments of wire and fencing showed the greatest percentage gain in this group in the 2-year period, totalling 1,245,000 pounds in year 3 as compared with 576,000 pounds in year 1, a gain of 116.1 percent.

Although farm implements and machinery, in this group, showed a decline in year 3 as compared with years 1 and 2, they had showed a gain of 31.4 percent in year 2 over year 1.

The general group, including 24 commodity items, showed increases of 67.3 percent in year 3 as compared with year 1, of 22.6 percent in year 3 over year 2, and 36.5 percent in year 2 over year 1. Weight of shipments in this group amounted to 49,971,000 pounds in year 1, to

68,195,000 pounds in year 2, and to 83,590,000 pounds in year 3.

The commercial and industrial group, with 53 commodity items, showed a gain of 62 percent in year 3 over year 1. In this group year 3 showed an increase of 16.4 percent as compared with year 2, while year 2 had advanced 39.2 percent over year 1. Weight of shipments in this group amounted to 39,692,000 pounds in year 1, to 55,242,000 pounds in year 2, and to 64,320,000 pounds in year 3.

Among various individual commodity items, shipments of gas and steam engines showed a 500 percent increase in year 3 over year 1. Weight of carlot shipments of paints and varnishes increased 412.2 percent in the same period. Carlot shipments of cereals gained 385 percent in year 3 over year 1, and shipments of cotton piece goods and batting increased 335.3 percent in the same period.

Comparisons for all commodity items in all groups are included in the following tabulation. It will be apparent that where shipments occurred in only one or two years of the three studied, it is impracticable to calculate percentage decreases or increases for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

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COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

NEW JERSEY

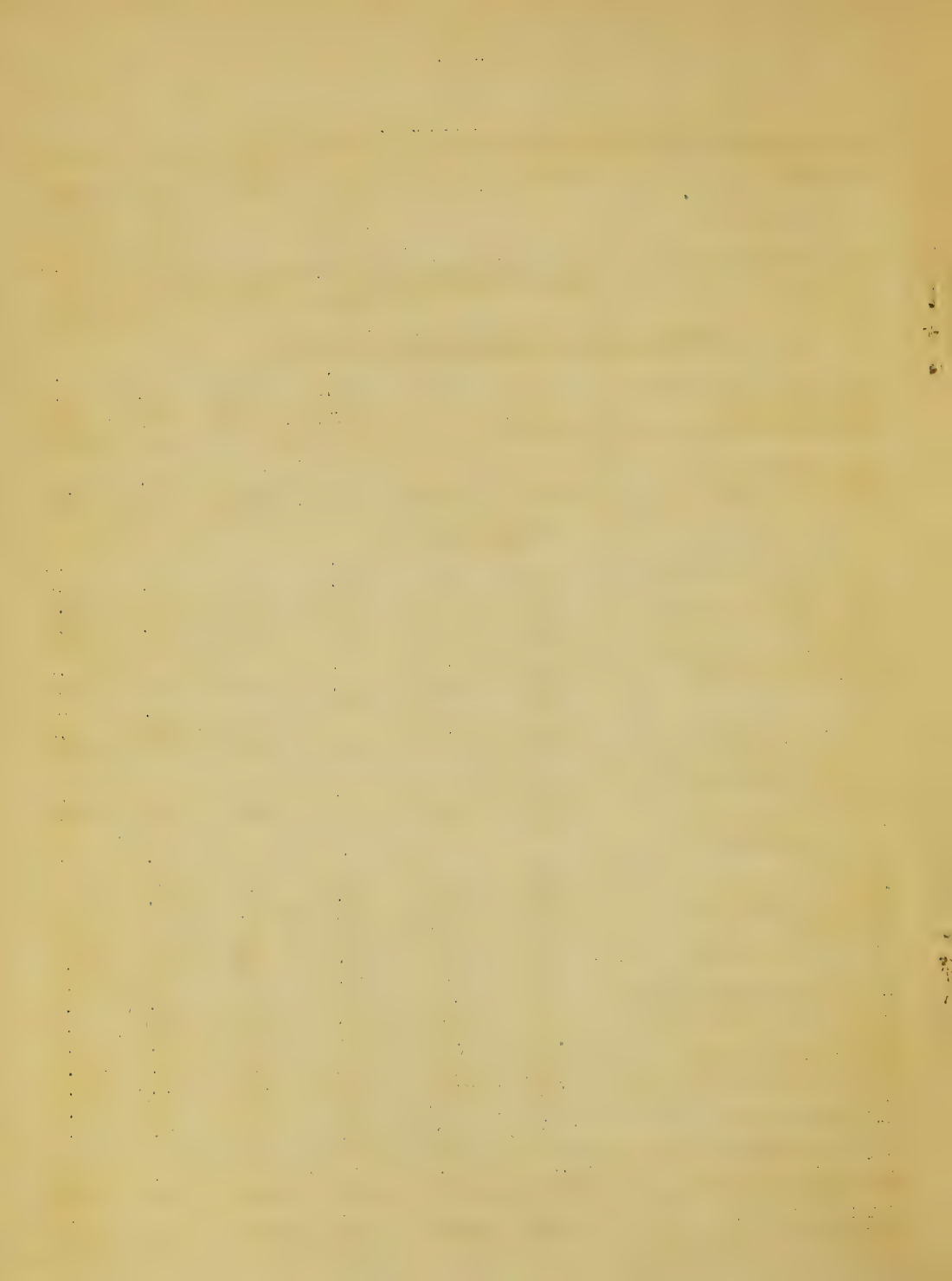
Carlot shipments of manufactured and industrial commodities from New Jersey to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	153	201	31.4	97	-51.8	-36.6
Tractors and Parts	--	--	--	160	--	--
Harness and Saddlery	86	--	--	17	--	-80.2
Wire and Fencing	576	952	65.3	1,245	30.8	116.1
Total Agricultural Group	815	1,153	41.5	1,519	31.7	86.4
<u>DOMESTIC AND PERSONAL GROUP</u>						
Book Cases and Desks	14	--	--	--	--	--
Cabinets and Kitchen Cabinets	13	50	284.6	--	--	--
Chairs	--	--	--	15	--	--
Electric Lamps and Fixtures	159	212	33.3	--	--	--
Furniture, Mixed	277	352	27.1	558	58.5	101.4
Radios and Parts	2,051	1,726	-15.9	2,247	30.2	9.6
Refrigerators	34	34	0.0	245	620.6	620.6
Sewing Machines	39	--	--	86	--	120.5
Stoves and Heaters	111	199	79.3	236	18.6	112.6
Tables	--	19	--	--	--	--
Bedding	--	--	--	18	--	--
Carpets and Linoleum	585	521	-11.0	1,138	118.4	94.5
Cotton Piece Goods and Batting	119	133	11.8	518	289.5	335.3
Electrical Appliances	183	79	-56.8	466	489.9	154.6

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>DOMESTIC AND PERSONAL GROUP (Continued)</u>						
Furnaces	21	50	138.1	50	0.0	138.1
Lawn Mowers	--	30	---	--	---	---
Matches	49	148	202.0	110	-25.7	124.5
Plumbing Fixtures and Fittings	539	1,511	180.3	2,613	72.9	384.8
Woolens	225	--	--	29	---	-87.1
Clothing	43	--	--	40	---	-7.0
Cereals	127	153	20.5	616	302.6	385.0
Cereal Beverages	--	90	--	103	14.4	--
Confectionery	120	110	-8.3	164	49.1	36.7
Sauces and Extracts	56	625	1,016.1	224	-64.2	300.0
Beer	371	762	105.4	447	-41.3	20.5
Fruit and Vegetable Juices	--	--	---	79	---	---
Ginger Ale and Other Beverages	123	31	-74.8	158	409.7	28.5
Liquor	60	800	1,233.3	1,308	63.5	2,080.0
Arms and Ammunition	167	206	23.4	126	-38.8	-24.6
Targets	13	--	---	--	---	---
Toilet Preparations	216	59	-72.7	32	-45.8	-85.2
Toys	--	--	---	40	---	---
Total Domestic and Personal Group	5,715	7,900	38.2	11,663	47.7	104.1
<u>COMMERCIAL AND INDUSTRIAL GROUP</u>						
Steel and Iron Products	4,670	5,268	12.8	6,973	32.4	49.3
Air Filters and Blowers	27	122	351.9	66	-45.9	144.4
Boilers, Tubes, and Parts	836	59	-93.0	198	235.6	-76.3
Cables	1,120	1,633	45.8	2,031	24.4	81.3
Cotton Gins and Parts	61	--	---	--	---	---
Elevators	--	146	---	74	-49.3	---
Engines (gas, steam, etc.)	24	209	770.8	144	-31.1	500.0
Machinery, Commercial and Industrial	3,431	4,664	35.9	3,760	-19.4	9.6
Machinery, Electrical	2,539	3,182	25.3	188	-94.1	-92.6
Machinery, Refrigeration	24	35	45.8	72	105.7	200.0
Machinery, Road	97	290	199.0	174	-40.0	79.4
Machinery, Parts	490	386	-21.2	547	41.7	11.6
Scales and Parts	51	16	-68.6	77	381.3	51.0

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
COMMERCIAL AND INDUSTRIAL GROUP (Continued)						
Tools and Equipment	137	78	-43.1	134	71.8	-2.2
Baskets, Canvas	43	--	--	24	--	-44.2
Fire Apparatus	63	40	-36.5	20	-50.0	-68.3
Furniture, Metal	12	--	--	--	--	--
Stokers, Mechanical	71	193	171.8	--	--	--
Store Fixtures	90	160	77.8	--	--	--
Switchboards	--	30	--	30	0.0	--
Burlap and Bagging	403	687	70.5	680	-1.0	68.7
Bottle Caps	75	--	--	--	--	--
Cloth	155	267	72.3	--	--	--
Cork and Products	672	969	44.2	939	-3.1	39.7
Cotton	174	40	-77.0	235	487.5	35.1
Cotton Factory Supplies	--	10	--	--	--	--
Felt and Carpeting	577	928	60.8	1,008	8.6	74.7
Glue and Sizing	590	450	-23.7	79	-82.5	-86.6
Hides and Pelts	467	715	53.1	1,466	105.0	213.9
Oils, Fish and Animal	867	644	-25.7	547	-15.1	-36.9
Oils, Vegetable	784	3,189	306.8	8,048	152.4	926.5
Ore	--	20	--	222	1010.0	--
Sponges	--	--	--	91	--	--
Tallow	--	--	--	781	--	--
Tanners Extracts and Oils	234	516	120.5	315	-39.0	34.6
Tobacco	178	434	143.8	751	73.0	321.9
Waste, Sweepings, etc.	221	--	--	364	--	64.7
Yarn	575	26	-95.5	154	492.3	-73.2
Asbestos and Products	951	1,862	95.8	1,494	-19.8	57.1
Asphalt and Products	9,171	14,789	61.3	21,357	44.4	132.9
Bricks	122	299	145.1	153	-48.8	25.4
Building Material, Misc.	947	519	-45.2	1,278	146.2	35.0
Concrete						
and Concrete Products	3,116	5,404	73.4	2,521	-53.4	-19.1
Coal Tar, Pitch and						
Products	139	514	269.8	716	39.3	415.1
Insulation	74	108	45.9	944	774.1	1,175.7
Lumber and Products	1,124	1,217	8.3	763	-37.3	-32.1
Sand	1,057	524	-50.4	1,020	94.7	-3.5
Shingles	1,555	1,540	-1.0	82	-94.7	-94.7
Stone and Products	397	348	-12.4	650	86.8	63.7
Aluminum and Products	73	179	145.2	69	-61.5	-5.5

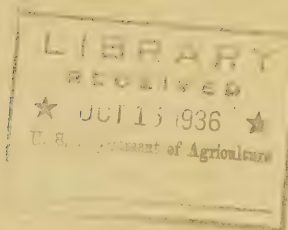
Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>COMMERCIAL AND INDUSTRIAL GROUP (Continued)</u>						
Copper and Brass Products	884	1,663	88.1	2,802	68.5	217.0
Lead and Products	218	870	299.1	252	-71.0	15.6
Zinc and Products	106	--	--	27	--	-74.5
Total Commercial and Industrial Group	39,692	55,242	39.2	64,320	16.4	62.0
<u>GENERAL GROUP</u>						
Alcohol and Anti-Freeze	1,191	3,520	195.5	4,051	15.1	240.1
Automobiles	175	59	-66.3	508	761.0	190.3
Auto Parts and Accessories	315	299	-5.1	276	-7.7	-12.4
Batteries	2,930	3,307	12.9	2,358	-28.7	-19.5
Gasoline, Oil and other Petroleum Products	15,464	25,571	65.4	28,287	10.6	82.9
Trucks	154	63	-59.1	--	--	--
Coke	--	27	--	34	25.9	--
Paper and Products	10,346	10,165	-1.8	8,364	-17.7	-19.2
Magazines, Books, Catalogues and other Advertising Material	2,101	2,109	0.4	3,001	42.3	42.8
Organs and Equipment	--	--	--	30	--	--
School Furniture and Supplies	--	30	--	33	10.0	--
Clay and Products	479	330	-31.1	742	124.8	54.9
Drugs and Chemicals	7,652	9,063	18.4	16,699	84.3	118.2
Explosives	626	1,074	71.6	798	-25.7	27.5
Glass and Glassware	810	1,191	47.0	1,749	46.9	115.9
Ink	471	532	13.0	667	25.4	41.6
Leather and Leather Goods	281	268	-4.6	490	82.8	74.4
Millwork and Cooperage	552	1,276	131.2	1,055	-17.3	91.1
Nails	20	--	--	37	--	85.0
Paints and Varnishes	1,572	3,333	112.0	8,052	141.6	412.2
Rubber and Products	1,526	1,195	-21.7	1,291	8.0	-15.4
Soap	2,162	2,709	25.3	3,395	25.3	57.0
Tin and Products	1,066	1,603	50.4	1,497	-6.6	40.4
Twine and Rope	78	471	503.8	176	-62.6	125.6
Total General Group	49,971	68,195	36.5	83,590	22.6	67.3
GRAND TOTAL	96,193	132,490	37.7	161,095	21.6	67.5



Commodity Survey Series

New York
September 1936

United States Department of Agriculture
Agricultural Adjustment Administration
Division of Information



Carlot railway shipments of manufactured and commercial commodities originating in the State of New York and delivered to 32 predominantly agricultural states west of the Mississippi and south of the Potomac and Ohio Rivers, increased 56.5 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

These facts were developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from New York, together with the changes from year to year, were as follows: In year 1 the total was 259,602,000 pounds; in year 2 it was 377,104,000 pounds or a gain of 45.3 percent; in year 3 it was 406,186,000 pounds, a gain of 7.7 percent over the year 2 poundage and of 56.5 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in New York and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in New York and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group, including goods used mostly in industry and commerce, and (4)

the "general" group.

Shipments of goods from New York in the agricultural group showed the greatest gain among the four groups, in the 2-year period, with an advance of 265.1 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 3,781,000 pounds in year 1, to 11,939,000 pounds in year 2, and to 13,803,000 pounds in year 3. Shipments in year 2 gained 215.8 percent over those in year 1, and shipments in year 3 gained 15.6 percent over those in year 2.

In the agricultural group shipments of farm machinery and implements increased from 2,556,000 pounds in year 1 to 9,629,000 pounds in year 2, and to 10,967,000 pounds in year 3. Year 2 poundage advanced 276.7 percent over that for year 1; year 3 advanced 13.9 percent over year 2 and 329.1 percent over year 1.

The greatest gain for any single item in any group was in coal tar, pitch, etc., of which 871,000 pounds were shipped in year 3 as compared with 38,000 pounds in year 1, and 62,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 2192.1 percent.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

Shipments of commodities in the industrial group advanced 80.9 percent in year 3 as compared with year 1. This group showed a gain of 68.5 percent in year 2 over year 1, a gain of 7.4 percent in year 3 as compared with year 2. Weights of shipments amounted to 85,744,000 pounds in year 1, to 144,444,000 pounds in year 2, and to 155,129,000 pounds in year 3. Shipments of steel and iron products showed the greatest weight gain in this group in the 2-year period, totaling 54,815,000 pounds in year 3 as compared to 19,932,000 pounds in year 1, a gain of 34,783,000 pounds, or 175 percent.

The domestic and personal group containing 33 commodity items showed increases of 57.5 percent in year 3 as compared with year 1, and 56.4 percent in year 2 over year 1. Weights of shipments in this group amounted to 28,453,000 pounds in year 1, to 44,487,000 pounds in year 2, and to 44,826,000 pounds in year 3.

Shipments of refrigerators in year 3 showed an increase of 848.8 percent over year 1 and a gain of 106.2 percent over year 2. Shipments in year 2 had increased 360.1 percent over those of year 1. Shipments of refrigerators amounted to 338,000 pounds in year 1, to 1,555,000 pounds in year 2, and to 3,207,000 pounds in year 3.

Shipments of cereal beverages gained 1,653.3 percent in year 2 over year 1, and 710 percent in year 3 over year 1. Weight of shipments of cabinets, including kitchen cabinets, showed an increase of 596.9 percent in year 3 over year 1. Shipments of this item increased 103.1 percent in year 2 over year 1, and 243.1 percent in year 3 over year 2.

The general group, with 27 subdivisions, showed a gain of 35.9 percent in year 3 over year 1. In this group year 2 had showed an increase of 24.4 percent over year 1. Weights of shipments in this group amounted to 141,624,000 pounds in year 1, to 176,234,000 in year 2, and 192,428,000 in year 3.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY BY COMMODITY GROUPS
NEW YORK

Carlot shipments of manufactured and industrial commodities from New York to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage increase in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	2,556	9,629	276.7	10,967	13.9	329.1
Tractors and Parts	197	424	115.2	315	-25.7	59.9
Beehives	31	78	151.6	64	-18.0	106.5
Brooders and Incubators	--	--	--	20	--	--
Steel Fence Posts	--	43	--	108	151.2	--
Harness and Saddlery	76	333	338.2	--	--	--
Wagons and Wheels	--	37	--	95	156.8	--
Wire and Fencing	921	1,395	51.5	2,234	60.1	142.6
Total Agricultural Group	3,781	11,939	215.8	13,803	15.6	265.1
<u>DOMESTIC AND PERSONAL GROUP</u>						
Bookcases and Desks	86	41	-52.3	36	-12.2	-58.1
Cabinets and Kitchen Cabinets	32	65	103.1	223	243.1	596.9
Chairs	30	61	103.3	208	241.0	593.3
Electric Lamps and Fixtures	31	32	3.2	13	-59.4	-58.1
Furniture, Mixed	3,396	3,498	3.0	3,716	6.2	9.4
Radios and Parts	667	341	-48.9	462	35.5	-30.7
Refrigerators	338	1,555	360.1	3,207	106.2	848.8
Sewing Machines	--	--	--	23	--	--
Stoves and heaters	361	417	15.5	1,328	218.5	267.9
Tables	85	46	-45.9	--	--	--
Bedding	66	137	107.6	67	-51.1	1.5

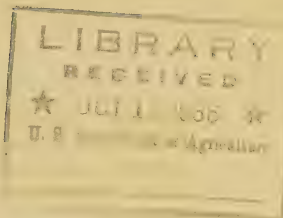
Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
DOMESTIC AND PERSONAL GROUP (CONTINUED)						
Carpets and Linoleum	582	1,391	139.0	565	-59.4	-2.9
Cotton Piece Goods and						
Batting	4,083	3,429	-16.0	1,844	-46.2	-54.8
Dishes	326	555	70.2	413	-25.6	26.7
Electrical Appliances	573	902	57.4	1,227	36.0	114.1
Furnaces	345	833	141.4	1,386	66.4	301.7
Lawn Mowers	---	78	---	76	-2.6	---
Matches	306	763	149.3	671	-12.1	119.3
Plumbers Fixtures and						
Fittings	486	408	-16.1	482	18.1	-0.8
Shoe Polish	118	40	-66.1	---	---	---
Woolens	1,130	567	-49.8	886	56.3	-21.6
Clothing	94	65	-30.9	52	-20.0	-44.7
Cereals	4,283	6,147	43.5	8,154	32.7	90.4
Cereal Beverages	30	526	1,653.3	243	-53.8	710.0
Confectionery	2,711	6,175	127.8	6,155	-0.3	127.0
Gelatin	52	139	167.3	286	105.8	450.0
Sauces and Extracts	1,497	2,289	52.9	1,207	-47.3	-19.4
Beer	1,549	1,951	26.0	1,873	-4.0	20.9
Fruit and Vegetable Juices	858	1,693	97.3	2,525	49.1	194.3
Liquor	623	3,900	526.0	3,554	-8.9	470.5
Ginger Ale and other Beverages	859	1,381	60.8	2,055	48.8	139.2
Arms and Ammunition	1,391	2,137	53.6	391	-81.7	-71.9
Toilet Preparations	1,212	2,552	110.6	1,438	-43.7	18.6
Toys	253	373	47.4	60	-83.9	-76.3
Total Domestic and Personal Group	28,453	44,487	56.4	44,826	0.8	57.5
GENERAL GROUP						
Automobiles	2,572	2,972	15.6	5,195	74.8	102.0
Auto Parts and Accessories	4,063	5,270	29.7	7,949	50.8	95.6
Trucks	262	333	27.1	360	8.1	37.4
Airplanes and Parts	63	134	112.7	20	-85.1	-68.3
Batteries	2,310	2,591	12.2	1,935	-25.3	-16.2
Gasoline, Oil, and other						
Petroleum Products	7,162	11,693	63.3	9,989	-14.6	39.5
Alcohol and Anti-Freeze	526	784	49.0	478	-39.0	-9.1
Bicycles, Motorcycles, etc.	105	112	6.7	224	100.0	113.3
Coke	---	53	---	60	13.2	---
Paper and Products	60,516	67,300	11.2	71,011	5.5	17.3

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
GENERAL GROUP (CONTINUED)						
Magazines, Books, Catalogues, and other advertising material:	5,304	7,890	48.8	11,571	46.7	118.2
School Furniture and Supplies	14	37	164.3	82	121.6	485.7
Organs and Equipment	18	—	—	121	—	572.2
Hospital Supplies	—	75	—	101	34.7	—
Clay and Products	1,122	1,019	-9.2	985	-3.3	-12.2
Drugs and Chemicals	44,007	54,139	23.0	60,415	11.6	37.3
Explosives	190	204	7.4	117	-42.7	-38.4
Glass and Glassware	1,448	3,182	119.8	2,528	-20.6	74.6
Ink	193	277	43.5	311	12.3	61.1
Leather and Leather Goods	355	1,436	304.5	2,684	86.9	656.1
Millwork and Cooperage	1,743	2,128	22.1	3,261	53.2	87.1
Nails	78	159	103.8	114	-28.3	46.2
Paints and Varnishes	1,306	2,686	105.7	3,992	48.6	205.7
Rubber and Products	3,584	3,956	10.4	1,588	-59.9	-55.7
Soap	657	1,906	190.1	2,960	55.3	350.5
Tin and Products	2,877	4,201	46.0	2,291	-45.5	-20.4
Twine and Rope	1,149	1,697	47.7	2,086	22.9	91.5
Total General Group	141,624	176,234	24.4	192,428	9.2	35.9
INDUSTRIAL AND COMMERCIAL GROUP						
Steel and Iron Products	19,932	50,898	155.4	54,815	7.7	175.0
Air Filters and Blowers	49	188	283.7	59	-68.6	20.4
Boilers, Tubes and Parts	2,739	3,340	21.9	4,879	46.1	78.1
Cables	917	1,267	38.2	1,688	33.2	84.1
Elevators	103	595	477.7	150	-74.8	45.6
Engines (gas, steam, etc.)	1,075	2,246	108.9	2,221	-1.1	106.6
Machinery, Commercial and Industrial	6,965	10,345	48.5	10,223	-1.2	46.8
Machinery, Electrical	2,379	3,598	51.2	4,441	23.4	86.7
Machinery, Refrigerating	763	1,957	156.5	1,994	1.9	161.3
Machinery, Road	557	287	-48.5	688	139.7	23.5
Machinery, Parts	2,034	1,571	-22.8	1,421	-9.6	-30.1
Tools and Equipment	275	703	155.6	946	34.3	244.0
Canvas Baskets	—	—	—	35	—	—
Fire Apparatus	92	263	185.9	185	-39.7	101.1
Furniture, metal	551	567	2.9	636	12.2	15.4
Stokers, mechanical	370	362	-2.2	341	-5.3	-7.8

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
INDUSTRIAL AND COMMERCIAL GROUP (CONTINUED)						
Store Fixtures	102	24	-76.5	64	166.7	-27.3
Theatre Chairs	---	11	---	51	363.6	---
Switchboards	58	40	-31.0	---	---	---
Abrasives	129	127	-1.6	279	119.7	116.3
Burlap and Bagging	3,929	3,117	-20.7	6,285	101.6	60.0
Bottle Caps	179	218	21.8	209	-4.1	16.8
Cloth	1,854	1,274	-31.3	1,300	2.0	-29.9
Cork and Products	24	77	220.8	141	83.1	487.5
Cotton	---	33	---	552	1,572.7	---
Cotton Factory Supplies	159	90	-43.4	75	-16.7	-52.8
Felt and Carpeting	81	459	466.7	489	6.5	503.7
Glue and Sizing	756	482	-36.3	1,017	111.0	34.5
Hides and Pelts	2,084	3,928	88.5	2,435	-38.0	16.8
Malt and Malt Syrup	353	461	30.6	319	-30.8	-9.6
Oils, fish and animal	335	268	-20.0	100	-62.7	-70.2
Oils, vegetable	1,066	1,871	75.5	2,239	19.7	110.0
Ore	---	506	---	---	---	---
Sponges	40	---	---	---	---	---
Tallow	---	50	---	300	500.0	---
Tanners Extracts and Oils	485	1,333	174.8	317	-76.2	-34.6
Tobacco	1,753	1,698	-3.1	527	-69.0	-69.9
Waste, Sweepings, etc.	444	97	-78.2	448	361.8	0.9
Yarn	482	2,447	407.7	801	-67.3	66.2
Asbestos and Products	---	129	---	652	405.4	---
Asphalt and Products	1,032	1,014	-1.8	1,227	21.0	18.9
Bricks	128	197	53.9	488	147.7	281.3
Building Material	6,141	7,877	28.3	14,485	83.9	135.9
Insulation	234	409	74.8	374	-8.6	59.8
Cement and Concrete Products	195	244	25.1	1,632	568.9	736.9
Coal tar, Pitch, etc.	38	62	63.2	871	1,304.8	2,192.1
Lumber and Products	1,752	5,633	224.4	1,449	-74.5	-17.3
Sand	17,594	24,520	39.4	23,654	-3.5	34.4
Shingles	43	---	---	---	---	---
Stone and Products	4,499	4,125	-8.3	2,448	-40.7	-45.6
Aluminum and Products	221	1,103	399.1	2,025	83.6	816.3
Copper and Brass Products	706	1,917	171.5	2,862	49.3	305.4
Lead and Products	47	366	678.7	292	-20.2	521.3
Total Industrial and Commercial Group	85,744	144,444	68.5	155,129	7.4	80.9
Grand Total	259,602	377,104	45.3	406,186	7.7	56.5

1941-114-C
Commodity Survey Series
Ohio
September, 1936

United States Department of Agriculture
Agricultural Adjustment Administration
Division of Information



Carlot railway shipments of manufactured and commercial commodities originating in the State of Ohio and delivered to 32 predominantly agricultural states west of the Mississippi and south of the Potomac and Ohio Rivers, increased 100.7 percent in weight in the first two years after Federal Government inaugurated agricultural recovery measures in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of the 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operating of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated as "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from Ohio, together with the changes from year to year, were as follows: In year 1 the total was 907,330,000 pounds; in year 2 it was 1,406,388,000 pounds or a gain of 55.0 percent; in year 3 it was 1,821,202,000 pounds, a gain of 29.5 percent over the year 2 poundage and of 100.7 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Ohio and forwarded to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there was other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia;

Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

The hundreds of articles produced in Ohio and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural" group made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "genral" group.

Shipments of goods from Ohio in the domestic and personal group showed the greatest gain among the four groups, in the 2-year period, with an advance of 147.5 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 47,625,000 pounds in year 1, to 80,020,000 pounds in year 2, and to 117,849,000 pounds in year 3. Shipments in year 2 gained 68.0 percent over those in year 1, and shipments in year 3 gained 47.3 percent over those in year 2.

The greatest percentage gain in any single item, with the exception of beer shipments was in coal tar, pitch, etc., of which 14,319,000 pounds were forwarded in carlot shipments from Ohio to agricultural areas in year 3 as compared with 373,000 pounds in year 1, and 10,336,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 3,738.9 percent. Beer shipments gained 4600.0 percent in year 3 over year 1. Shipments of sewing machines increased 1,162.5 percent over year 1.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

Shipments of commodities in the general group gained 104.8 percent in year 3 as compared with year 1. This group showed a gain of 38.2 percent in year 2 over year 1, and a gain of 48.2 percent in year 3 as compared with year 2. Weights of shipments amounted to 409,164,000 pounds in year 1, to 565,439,000 pounds in year 2, and to 837,979,000 pounds in year 3. Shipments of gasoline, oil and other petroleum products showed the greatest gain in the 2-year period, totaling 144,802,000 pounds in year 3 as compared to 17,371,000 pounds in year 1, a gain of 733.6 percent.

Weight of shipments of bicycles and motorcycles gained 264.9 percent in year 3 as compared with year 1 and shipments of automobiles gained 183.4 percent.

The agricultural group showed increases of 99.8 percent in year 3 as compared with year 1, of 43 percent in year 3 over year 2, and 91.5 percent in year 2 over year 1. Weights of shipments in this group amounted to 17,265,000 pounds in year 1, to 33,063,000 pounds in year 2, and to 34,491,000 pounds in year 3.

Weight of shipments of tractors and parts gained 240.3 percent in the two years. Carlot shipments of tractors weighed 8,773,000 pounds in year 3 as compared with 2,578,000 in year 1. Percentage increase in weight of farm implements and machinery was 175.5 in year 3 as compared to year 1.

The industrial and commercial group showed a gain of 91.8 percent in year 3 over year 1. In this group year 3 showed an increase of 14.2 percent as compared to year 2, while year 2 had showed an increase of 68.0 percent over year 1. Weights of shipments in this group amounted to 433,276,000 pounds in year 1, to 727,866,000 in year 2, and 830,883,000 in year 3.

In this group shipments of hides and pelts increased 2166.0 percent in year 3 over year 1, and shipments of abrasives increased 1940.0 percent in year 3 over year 1. Weight of shipments of cables increased from 16,000 pounds in year 1 to 242,000 pounds in year 3, a percentage gain of 1412.5 percent.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases, for both year 2 and year 3.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

OHIO

Carlot shipments of manufactured and industrial commodities from Ohio to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	3,438	8,431	145.2	9,473	12.4	175.5
Tractors and Parts	2,578	5,166	100.4	8,773	69.8	240.3
Beehives	88	134	52.3	41	-69.4	-53.4
Brooders and Incubators	104	255	145.2	88	-65.5	-15.4
Steel Fence Posts	---	126	---	20	-84.1	---
Harness and Saddlery	2,309	2,992	29.6	1,105	-63.1	-52.1
Wagons and Wheels	1,655	2,566	55.0	1,426	-44.4	-13.8
Wire and Fencing	7,093	13,393	88.8	13,565	1.3	91.2
Total Agricultural Group	17,265	33,063	91.5	34,491	4.3	99.8
<u>DOMESTIC AND PERSONAL GROUP</u>						
Bookcases and Desk	21	15	-28.6	115	666.7	447.6
Cabinets and Kitchen Cabinets	169	237	40.2	486	105.1	187.6
Chairs	92	90	-2.2	158	75.6	71.7
Electric Lamps and Fixtures	974	1,042	7.0	188	-82.0	-80.7
Furniture, Mixed	1,956	2,429	24.2	2,736	12.6	39.9
Radios and Parts	141	190	34.8	289	52.1	105.0
Refrigerators	5,817	14,225	144.5	29,630	108.3	409.4
Sewing Machines	24	---	---	303	---	1162.5
Stoves and Heaters	12,032	17,649	46.7	19,810	12.2	64.6
Tables	119	133	11.8	180	35.3	51.3
Bedding	53	377	611.3	393	4.2	641.5
Carpets and Linoleum	419	881	110.3	659	-25.2	57.3

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>DOMESTIC AND PERSONAL GROUP</u>						
Cotton Piece Goods and						
Batting	1,093	1,153	5.5	2,514	118.0	130.0
Dishes	40	59	47.5	---	---	---
Electrical Appliances	612	955	56.0	2,045	114.1	234.2
Furnaces	2,363	3,447	45.9	3,188	-7.5	34.9
Lawn Mowers	79	---	---	---	---	---
Matches	8,324	13,613	63.5	14,417	5.9	73.2
Plumbing Fixtures & Fittings	4,981	7,211	44.8	10,457	45.0	109.9
Shoe Polish	---	---	---	12	---	---
Woolens	94	336	257.4	196	-41.7	108.5
Clothing	103	68	-34.0	92	35.3	-10.7
Cereals	316	698	120.9	4,237	507.0	1,240.8
Cereal Beverages	---	324	---	873	169.4	---
Confectionery	174	169	-2.9	178	5.3	2.3
Sauces and Extracts	1,754	2,354	34.2	3,353	42.4	91.2
Spaghetti	43	---	---	---	---	---
Tapioca	---	79	---	36	-54.4	---
Beer	99	992	902.0	4,653	369.1	4600.0
Fruit and Vegetable Juices	339	470	38.6	640	36.2	88.8
Liquor	1,478	3,948	167.1	6,589	66.9	345.8
Ginger Ale and other						
Beverages	499	684	37.1	2,148	214.0	330.5
Arms and Ammunition	1,667	3,901	134.0	3,279	-16.0	96.7
Targets	99	326	229.3	495	51.8	400.0
Toilet Preparations	150	---	---	---	---	---
Toys	869	1,135	30.6	2,509	121.1	188.7
Undertaker's Supplies	632	830	31.3	991	19.4	56.8
Total Domestic and Personal Group	47,625	80,020	68.0	117,849	47.3	147.5
<u>INDUSTRIAL AND COMMERCIAL GROUP</u>						
Steel and Iron Products	219,185	471,468	115.1	455,888	-3.3	108.0
Air Filters and Blowers	59	250	323.7	226	-9.6	283.1
Boilers, Tubes and Parts	3,438	3,443	0.1	3,032	-11.9	-11.8
Cables	16	128	700.0	242	89.1	1412.5
Cotton Gins and Parts	23	---	---	---	---	---
Elevators	277	276	-0.4	166	-39.9	-40.1
Engines (gas, steam, etc.)	3,076	4,229	37.5	4,007	-5.3	30.3

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
INDUSTRIAL AND COMMERCIAL GROUP (Cont'd)						
Machinery, Commercial and Industrial	10,795	19,865	84.0	21,776	9.6	101.7
Machinery, Electrical	3,904	9,869	152.8	9,815	-0.6	151.4
Machinery, Refrigerating	6,233	13,454	115.9	8,307	-38.3	33.3
Machinery, Road	3,725	4,629	24.3	9,140	97.5	145.4
Machinery Parts	2,837	4,720	66.4	4,502	-4.6	58.7
Tools and Equipment	1,719	3,533	105.5	6,831	93.3	297.4
Canvas Baskets	30	40	33.3	--	--	--
Fire Apparatus	34	25	-26.5	87	248.0	155.9
Furniture, Metal	357	1,124	214.8	670	-40.4	87.7
Stokers, mechanical	227	30	-86.8	64	113.3	-71.8
Store Fixtures	11	128	1063.6	85	-33.6	672.7
Abrasives	10	220	2100.0	204	-7.3	1940.0
Burlap and Bagging	1,184	1,210	2.2	1,040	-14.1	-12.2
Bottle Caps	120	180	50.0	196	8.9	63.3
Cloth	2,422	1,428	-41.1	531	-62.8	-78.1
Clothing Loops	30	--	--	--	--	--
Cork	20	29	45.0	--	--	--
Cotton	79	203	157.0	88	-56.7	11.4
Cotton Factory Supplies	--	92	--	--	--	--
Felt and Carpeting	542	701	29.3	1,067	52.2	96.9
Glue and Sizing	95	190	100.0	511	168.9	437.9
Hides and Pelts	47	227	383.0	1,065	369.2	2166.0
Malt and Malt Syrup	734	1,167	59.0	1,644	40.9	124.0
Oils, fish and animal	1,733	1,371	-20.9	4,375	219.1	152.5
Oils, vegetable	4,781	4,823	0.9	4,107	-14.9	-14.1
Ore	--	265	--	101	-61.9	--
Tallow	1,227	461	-62.4	307	-33.4	-75.0
Tanners Extracts and Oils	157	50	-68.2	97	94.0	-38.2
Tobacco	3,256	2,836	-12.9	4,771	68.2	46.5
Waste, Sweepings, etc.	110	353	2,209	465	31.7	322.7
Yarn	81	61	-24.7	41	-32.8	-49.4
Asbestos and Products	3,435	4,067	18.4	6,878	69.1	100.2
Asphalt and Products	53,317	58,146	9.1	99,073	70.4	85.8
Bricks	13,491	16,717	23.9	22,932	37.2	70.0
Building Material	29,808	33,303	11.7	33,965	2.0	13.9
Insulation	381	987	159.1	1,681	70.3	341.2
Cement and Concrete Products	25,496	20,545	-19.4	29,648	44.3	16.3
Coal tar, Pitch, etc.	373	10,336	2671.0	14,319	38.5	3738.9
Lumber and Products	2,412	3,271	35.6	4,638	41.8	92.3
Sand	23,675	20,669	-12.7	47,670	130.6	101.4

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>INDUSTRIAL AND COMMERCIAL GROUP (CONTINUED)</u>						
Shingles	3,571	1,552	-56.5	1,018	-34.4	-71.5
Stone and Products	2,727	2,055	-24.7	20,188	882.4	640.3
Aluminum and Products	538	1,903	253.7	1,320	-30.6	145.4
Copper and Brass Products	871	740	-15.1	1,145	54.7	31.5
Lead and Products	607	430	-29.2	920	114.0	51.6
Zinc and Products	--	67	--	40	-40.3	--
Total Industrial and Commercial Group	433,276	727,866	68.0	830,883	14.2	91.2
<u>GENERAL GROUP</u>						
Airplanes and Parts	--	53	--	10	-81.1	--
Alcohol and Anti-Freeze	87	116	33.3	125	7.8	43.7
Automobiles	15,312	33,159	116.6	43,392	30.9	183.4
Auto Parts and Accessories	99,053	152,430	53.9	191,597	25.7	93.4
Batteries	15,464	21,651	40.0	22,175	2.4	43.4
Bicycles, Motorcycles, etc.	276	581	110.5	1,007	73.3	264.9
Gasoline, Oil, and other						
Petroleum Products	17,371	17,031	-2.0	144,802	750.2	733.6
Trucks	3,408	5,617	64.8	6,975	24.2	104.7
Coke	3,284	1,715	-47.8	6,926	303.8	110.9
Paper and Products	44,358	55,606	25.4	67,814	22.0	52.9
Magazines, Books, Catalogues, and other advertising material	13,845	18,159	31.2	16,652	-8.3	20.3
School Furniture and Supplies	474	615	29.7	318	-48.3	-32.9
Organs and Equipment	--	--	--	61	--	--
Hospital Supplies	47	78	66.0	--	--	--
Drugs and Chemicals	69,654	78,911	13.3	98,473	24.8	41.4
Clay and Products	12,723	15,834	24.5	16,731	5.7	31.5
Explosives	352	305	-13.4	269	-11.8	-23.6
Glass and Glassware	22,848	32,604	42.7	46,288	42.0	102.6
Ink	107	--	--	46	--	-57.0
Leather and Leather Goods	220	376	70.9	127	-66.2	-42.3
Millwork and Cooperage	3,923	4,571	16.5	7,313	60.0	86.4
Nails	3,048	5,656	85.6	3,847	-32.0	26.2

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>GENERAL GROUP (CONTINUED)</u>						
Paints and Varnishes	4,629	6,931	49.7	10,004	44.3	116.1
Rubber and Products	5,763	13,365	131.9	10,635	-20.4	84.5
Soap	15,614	14,745	-5.6	50,111	239.9	220.9
Tin and Products	47,650	81,152	70.3	86,602	6.7	81.7
Twine and Rope	9,654	4,178	-56.7	5,679	35.9	-41.2
Total General Group	409,164	565,439	38.2	837,979	48.2	104.8
Grand Total	907,330	1,406,388	55.0	1,821,202	29.5	100.7

Commodity Survey Series
Pennsylvania
September 1936

United States Department of Agriculture
Agricultural Adjustment Administration U. S. Department of Agriculture
Division of Information

Carlot railway shipments of manufactured and commercial commodities originating in the State of Pennsylvania and delivered to 32 predominantly agricultural states west of the Mississippi and south of the Potomac and Ohio Rivers, increased 77.8 percent in weight in the first two years after Federal Government inaugurated agricultural recovery measures in 1933. Shipments of articles used primarily on farms increased 146.8 percent in the two years.

These facts were developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of the 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated as "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from Pennsylvania, together with the changes from year to year, were as follows: In year 1 the total was 644,556,000 pounds; in year 2 it was 1,064,752,000 pounds or a gain of 65.2 percent; in year 3 it was 1,145,864,000 pounds, a gain of 7.6 percent over the year 2 poundage and of 77.8 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000^{for} the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Pennsylvania and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in Pennsylvania and shipped by the carload to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as

follows: (1) the "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from Pennsylvania in the agricultural group showed the greatest gain among the four groups, in the 2-year period, with an advance of 146.8 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 9,749,000 pounds in year 1, to 20,467,000 pounds in year 2, and to 24,058,000 pounds in year 3. Shipments in year 2 gained 109.9 percent over those in year 1, and shipments in year 3 gained 17.5 percent over those in year 2.

The greatest gain in any agricultural item was in steel fence posts of which 740,000 pounds were forwarded in carlot shipments from Pennsylvania to agricultural areas in year 3 as compared with 260,000 pounds in year 1, and 619,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 184.6 percent. Not far behind the percentage gain in shipments of fence posts was the increase in shipments of tractors and parts which advanced 182.4 percent in year 3 as compared to year 1.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

Shipments of commodities in the commercial and industrial group gained 138.0 percent in year 3 as compared with year 1. This group showed a gain of 102.5 percent in year 2 over year 1 and a gain of 17.5 percent in year 3 as compared with year 2. Weights of shipments amounted to 245,311,000 pounds in year 1, to 496,681,000 pounds in year 2, and to 583,755,000 pounds in year 3. Shipments of lead and products showed the greatest gain in the 2-year period, totaling 421,000 pounds in year 3 as compared to 33,000 pounds in year 1, a gain of 1175.8 percent.

The domestic and personal group containing 37 commodity items, showed increases of 84.9 percent in year 3 as compared with year 1 of 11.1 percent in year 3 over year 2, and 66.4 percent in year 2 over year 1. Weights of shipments in this group amounted to 47,206,000 pounds in year 1, to 78,564,000 pounds in year 2, and to 87,261,000 pounds in year 3.

Weight of liquor shipments increased 1365.9 percent in year 3 over year 1; shipments of ginger ale increased 1155.9 percent; and carlot shipments of cereal beverages increased 1258.1 percent. Shipments of electrical appliances from Pennsylvania gained 520 percent in year 3 over year 1 and carlot shipments of radios and parts advanced 116.5 percent in the 2 years. On the other hand there were decreases in shipments of lawn mowers, sauces and extracts, electric lamps and fixtures, and some other items.

The general group, with 27 subdivisions, showed a gain of 31.7 percent in year 3 over year 1. In this group year 3 showed a decrease of 3.9 percent as compared to year 2, while year 2 had showed an increase of 65.2 percent over year 1. Weights of shipments in this group amounted to 342,290,000 pounds in year 1, to 469,040,000 pounds in year 2, and 450,790,000 in year 3.

Weight of carlot shipments of coke from Pennsylvania advanced 488.6 percent in the two years. Shipments of millwork and cooperage gained 364.0 percent in year 3 as compared with year 1, and shipments of trucks increased 328.9 percent.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases, for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY BY COMMODITY GROUPS
PENNSYLVANIA

Carlot shipments of manufactured and industrial commodities from Pennsylvania to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	1,167	1,395	19.5	2,230	59.9	91.1
Tractors and Parts	68	44	-35.3	192	336.4	182.4
Brooders and Incubators	--	--	--	43	--	--
Fence Posts, Steel	260	619	138.1	740	19.5	184.6
Harness and Saddlery	88	429	387.5	--	--	--
Wagons and Wheels	45	58	28.9	82	41.4	82.2
Wire and Fencing	8,121	17,922	120.7	20,771	15.9	155.8
Total Agricultural Group	9,749	20,467	109.9	24,058	17.5	146.8
<u>DOMESTIC AND PERSONAL GROUP</u>						
Cabinets and Kitchen Cabinets	52	40	-23.1	292	630.0	461.5
Chairs	95	98	3.2	191	94.9	101.1
Electric Lamps and Fixtures	90	211	134.4	37	-82.5	-58.9
Furniture, Mixed	1,250	837	-33.0	1,414	68.9	13.1
Radios and Parts	1,506	2,105	39.8	3,261	54.9	116.5
Refrigerators	3,479	6,465	85.5	9,689	50.1	178.5

(Continued)

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
DOMESTIC AND PERSONAL GROUP (Continued)						
Sewing Machines	--	22	--	--	--	--
Stoves and Heaters	2,189	2,318	5.9	3,815	64.6	74.3
Tables	30	10	-66.7	15	50.0	-50.0
Bedding	356	532	49.4	296	-44.4	-16.9
Carpets and Linoleum	15,088	21,550	42.8	9,216	-57.2	-38.9
Cotton Piece Goods and Batting	574	423	-26.3	291	-31.2	-49.3
Dishes	24	52	116.7	40	-23.1	66.7
Electrical Appliances	125	179	43.2	775	333.0	520.0
Furnaces	107	112	4.7	126	12.5	17.8
Lawn Mowers	144	161	11.8	35	-78.3	-75.7
Matches	128	734	473.4	752	2.5	487.5
Plumbing Fixtures and Fittings	3,243	4,563	40.7	7,501	64.4	131.3
Woolens	1,660	1,972	18.8	716	-63.7	-56.9
Clothing	113	95	-15.9	176	85.3	55.8
Cereals	2,903	6,037	108.0	8,760	45.1	201.8
Cereal Beverages	62	828	1,235.5	842	1.7	1,258.1
Confectionery	8,060	12,929	60.4	23,133	78.9	187.0
Sauces and Extracts	2,716	1,239	-54.4	635	-48.8	-76.6
Spaghetti	99	272	174.7	75	-72.4	-24.2
Tapioca	--	89	--	--	--	--
Beer	1,857	4,530	143.9	3,621	-20.1	95.0
Fruit and Vegetable Juices	279	1,028	268.5	963	-6.3	245.2
Liquor	492	6,989	1,320.5	7,212	3.2	1,365.9
Ginger Ale and other Beverages	247	1,726	598.8	3,102	79.7	1,155.9
Arms and Ammunition	148	187	26.4	141	-24.6	-4.7
Toilet Preparations	--	24	--	--	--	--
Toys	90	143	58.9	139	-2.8	54.4
Undertaker's Supplies	--	74	--	--	--	--
Total Domestic and Personal Group	47,206	78,564	66.4	87,261	11.1	84.9

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
COMMERCIAL AND INDUSTRIAL GROUP						
Steel and Iron Products	148,249	355,277	139.6	409,008	15.1	175.9
Air Filters and Blowers	111	348	213.5	583	67.5	425.2
Boilers, tubes and parts	7,159	13,019	81.9	7,501	-42.4	4.8
Cables	966	2,512	160.0	2,551	1.6	164.1
Cotton Gins and Parts	67	--	--	--	--	--
Elevators	--	48	--	24	-50.0	--
Engines (gas, steam, etc.)	1,050	2,920	178.1	4,074	39.5	288.0
Machinery, Commercial and Industrial	9,891	11,881	20.1	17,717	49.1	79.1
Machinery, Electrical	1,830	3,167	73.1	16,460	419.7	799.5
Machinery, Refrigerating	1,822	2,576	41.4	2,460	-4.5	35.0
Machinery, Road	967	2,612	170.1	2,183	-16.4	125.7
Machinery Parts	3,336	4,106	23.1	4,585	11.7	37.4
Tools and Equipment	1,576	2,564	62.7	4,795	87.0	204.3
Fire Apparatus	38	--	--	31	--	-18.4
Furniture, metal	42	146	247.6	312	113.7	642.9
Stokers, mechanical	286	823	187.8	350	-57.5	22.4
Store Fixtures	116	15	-87.1	12	-20.0	-89.7
Theatre Chairs	40	28	-30.0	24	-14.3	-40.0
Switchboards	152	118	-22.4	317	168.6	108.6
Abrasives	--	--	--	114	--	--
Animal Hair	--	72	--	--	--	--
Burlap and Bagging	1,314	2,034	54.8	1,459	-28.3	11.0
Bottle Caps	360	603	67.5	536	-11.1	48.9
Cloth	790	765	-3.2	770	0.7	-2.5
Clothing Loops	--	90	--	--	--	--
Cork and Products	1,471	1,737	18.1	2,007	15.5	36.4
Cotton	43	43	0.0	153	255.8	255.8
Cotton Factory Supplies	--	109	--	--	--	--
Felt and Carpeting	3,353	6,805	103.0	7,527	10.6	124.5
Glue and Sizing	322	553	71.7	523	-5.4	62.4
Hides and Pelts	2,026	3,252	60.5	1,941	-40.3	-4.2
Malt and Malt Syrup	95	40	-57.9	31	-22.5	-67.4
Oils, fish and animal	--	31	--	388	1151.6	--
Oils, vegetable	653	636	-2.6	3,535	455.8	441.3
Ore	1,863	2,655	42.5	2,192	-17.4	17.7
Sponges	192	55	-71.4	102	85.5	-46.9

(Continued)

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>COMMERCIAL AND INDUSTRIAL GROUP (con'td)</u>						
Tallow	329	570	73.3	344	-39.7	4.6
Tanners' Extracts and Oils	887	935	5.4	626	-33.1	-29.4
Tobacco	987	968	-1.9	755	-22.0	-23.5
Waste, Sweepings, etc.	119	192	61.3	1,167	507.8	880.7
Yarn	332	215	-35.3	719	234.4	116.6
Asbestos and Products	383	660	72.3	955	44.7	149.3
Asphalt and Products	12,639	17,965	42.1	15,258	-15.1	20.7
Bricks	8,214	12,627	53.7	10,762	-14.8	31.0
Building Material, Misc.	1,524	2,210	45.0	2,479	12.2	62.7
Insulation	810	798	-1.5	1,519	90.4	87.5
Cement and Concrete Products	17,094	23,640	38.3	39,133	65.5	128.9
Coal tar, Pitch, etc.	543	2,360	334.6	1,963	-16.8	261.5
Lumber and Products	2,537	2,260	-10.9	2,181	-3.5	-14.0
Sand	241	190	-21.2	154	-19.0	-36.1
Shingles	1,240	362	-70.8	129	-64.4	-89.6
Stone and Products	3,953	3,854	-2.5	3,161	-18.0	-20.0
Aluminum and Products	329	1,413	329.5	1,135	-19.7	245.0
Copper and Brass Products	2,607	2,654	1.8	5,645	112.7	116.5
Lead and Products	33	52	57.6	421	709.6	1175.8
Zinc and Products	330	1,116	238.2	984	-11.8	198.2
Total Commercial and Industrial Group	245,311	496,681	102.5	583,755	17.5	138.0
<u>GENERAL GROUP</u>						
Automobiles	2,010	1,564	-22.2	2,230	42.6	10.9
Auto Parts and Accessories	6,859	7,552	10.1	22,136	193.1	222.7
Trucks	848	621	-26.8	3,637	485.7	328.9
Airplanes and Parts	32	90	181.2	--	--	--
Batteries	8,651	9,969	15.2	12,633	26.7	46.0
Gasoline, Oil and other Petroleum Products	93,179	104,312	11.9	106,045	1.7	13.8
Alcohol and Anti-Freeze	2,349	4,926	109.7	7,571	53.7	222.3
Bicycles, Motorcycles, etc.	11	--	--	--	--	--
Coke	394	605	53.6	2,319	283.3	488.6

(Continued)

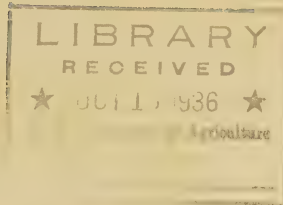
Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
GENERAL GROUP (Continued)						
Paper and Products	18,326	22,887	24.9	27,704	21.0	51.2
Magazines, Books, Catalogues and other advertising material	21,388	26,331	23.1	28,282	7.4	32.2
School Furniture and Supplies	207	443	114.0	184	-58.5	-11.1
Organs and Equipment	--	91	--	--	--	--
Hospital Supplies	--	--	--	34	--	--
Clay and Products	2,179	4,508	106.9	2,930	-35.0	34.5
Drugs and Chemicals	10,969	17,521	59.7	32,748	86.9	198.6
Explosives	2,538	2,587	1.9	2,349	-9.2	-7.5
Glass and Glassware	34,267	49,260	43.8	60,546	22.9	76.7
Ink	425	270	-36.5	482	78.5	13.4
Leather and Leather Goods	1,148	1,036	-9.8	1,784	72.2	55.4
Millwork and Cooperage	550	2,234	306.2	2,552	14.2	364.0
Nails	5,299	10,534	98.8	7,820	-25.8	47.6
Paints and Varnishes	1,519	2,359	55.3	3,297	39.8	117.1
Rubber and Products	149	287	92.6	366	27.5	145.6
Soap	2,477	3,050	23.1	5,088	66.8	105.4
Tin and Products	126,222	195,638	55.0	117,741	-39.8	-6.7
Twine and Rope	294	365	24.1	312	-14.5	6.1
Total General Group	342,290	469,040	37.0	450,790	-3.9	31.7
Grand Total	644,556	1,064,752	65.2	1,145,864	7.6	77.8



Commodity Survey Series
Rhode Island
September, 1936

AA45C

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Adjustment Administration
Division of Information



A study of freight waybills on carlot shipments of manufactured and industrial commodities from 16 highly industrialized states to predominantly agricultural regions has revealed a general gain of more than 60 percent in the weight of these shipments since the inauguration of agricultural and other recovery measures in 1933. In 1932, National farm income amounted to \$4,377,000,000, in 1933 it was \$5,409,000,000; in 1934 it was \$6,227,000,000; in 1935 it was \$7,201,000,000. Increased farm purchasing power in the agricultural States was reflected in increased shipments of the products of the factories of the industrial areas.

The waybill study covered only carlot shipments that originated in the 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio rivers and that were delivered in the 32 predominantly agricultural states west and south of those rivers, by 16 principal railroads serving the agricultural area.

Total weight of these carlot shipments from Rhode Island points of origin to agricultural states showed an increase of 6.4 percent in the first 12 months after June 30, 1933, as compared with the weight of shipments in the preceding 12-month period. In the second 12-month period, beginning July 1, 1934, total weight showed a decrease of 27.2 percent compared with the year preceding June 30, 1933, although there were increases ranging from 34.3 percent to 273.4 percent in such important commodities as cotton piece goods and batting, glass and glassware, copper and brass products, furniture, shoe polish, arms and ammunition, paper and its products, steel and iron products, felt and carpeting, stone and products, lumber and products.

As against gains in these products there were in the last year studied, decreases ranging from 2 percent to 74.8 percent in carlot shipments of such items as waste and sweepings, miscellaneous building materials, machinery and machinery parts, soap, cables, drugs and chemicals, wire and fencing.

Being simply a tabulation of the weights of carlot shipments between the regions described, the study does not indicate trends in movement of freight in less than car lots, by truck or by water, or from Rhode Island to other states in the northeastern quarter of the United States.

There were other factors not apparent merely through examination of more than half a million waybills and waybill abstracts in the freight offices of the railroads delivering the shipments. There were changes in the channels of distribution and methods of transportation, and shifts in the trade territories, as well as other influences.

In this study the 12-month period ended June 30, 1933 was designated as "year 1"; that ended June 30, 1934, as "year 2"; and that ended June 30, 1935, as "year 3". Year 1 preceded the inauguration of recovery measures, Year 2 was the first full year after the beginning of these measures.

Articles produced in the northeast and shipped by the carload to the agricultural states were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural" group made up of commodities used principally by farmers in their production activities; (2) the "domestic and personal" group; (3) the "industrial and commercial" group; (4) the "general" group.

Rhode Island shipments in the domestic and personal group advanced 102.4 percent in year 2, and 166 percent in year 3 as compared with year 1. Shipments in this group amounted to 538,000 pounds in year 1, to 1,089,000 pounds in year 2, and to 1,431,000 pounds in year 3.

Complete tabulation of the weights of shipments in the different years, together with percentage changes, by commodities and by groups, are included in the following tabulation.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

RHODE ISLAND

Carlot shipments of manufactured and industrial commodities from Rhode Island to 32 predominantly agricultural states west of the Mississippi and south of the Potomac and Ohio Rivers. Also percentage changes in such shipments for year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Wire and Fencing	47	116	146.8	31	-73.3	-34.1
Total Agricultural Group	47	116	146.8	31	-73.3	-34.1
<u>DOMESTIC AND PERSONAL GROUP</u>						
Chairs	--	--	--	12	--	--
Electric Lamps and Fixtures	18	--	--	--	--	--
Furniture, Mixed	38	31	-18.4	102	229.0	168.4
Stoves and Heaters	--	22	--	--	--	--
Carpets and Linoleum	--	43	--	30	-30.2	--
Cotton Piece Goods and Batting	264	444	68.2	563	26.8	113.3
Electrical Appliances	60	--	--	--	--	--
Shoe Polish	158	450	184.8	542	20.4	243.0
Beer	--	31	--	140	351.6	--
Fruit and Vegetable Juices	--	13	--	--	--	--
Ginger Ale and other Beverages	--	55	--	--	--	--
Arms and Ammunition	--	--	--	42	--	--
Total Domestic and Personal Group	538	1,089	102.4	1,431	31.4	166.0
<u>GENERAL GROUP</u>						
Automobiles	--	--	--	100	--	--
Auto Parts and Accessories	30	--	--	--	--	--
Gasoline, Oil and other Petroleum Products	30	36	20.0	--	--	--
Magazines, Books, Catalogues, and other advertising Material	72	--	--	--	--	--

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>GENERAL GROUP (Continued)</u>						
Paper and Products	271	306	12.9	364	19.0	34.3
Clay and Products	--	30	--	--	--	--
Drugs and Chemicals	1,294	695	-46.3	326	-53.1	-74.8
Glass and Glassware	18	--	--	40	--	122.2
Leather and Leather Products	98	221	125.5	--	--	--
Millwork and Cooperage	--	76	--	54	-29.0	--
Nails	--	18	--	--	--	--
Paints and Varnishes	36	53	47.2	--	--	--
Rubber and Products	195	43	-78.0	--	--	--
Soap	383	167	-56.4	110	-34.1	-71.3
Tin and Products	51	--	--	50	--	-2.0
<u>Total General Group</u>	<u>2,478</u>	<u>1,703</u>	<u>-31.3</u>	<u>1,044</u>	<u>-38.7</u>	<u>-57.9</u>
<u>COMMERCIAL AND INDUSTRIAL GROUP</u>						
Steel and Iron Products	209	197	-5.8	348	76.6	66.5
Boilers, Tubes and Parts	--	--	--	28	--	--
Cables	151	92	-39.1	110	19.6	-27.2
Cotton Gins and Parts	--	27	--	--	--	--
Machinery, Commercial and Industrial	8,213	8,779	6.9	4,487	-48.9	-45.4
Machinery, Refrigeration	--	255	--	30	-88.2	--
Machinery, Road	--	--	--	24	--	--
Machinery, Parts	93	25	-73.1	90	260.0	-3.2
Abrasives	--	18	--	--	--	--
Cotton	--	22	--	--	--	--
Felt and Carpeting	36	--	--	85	--	136.1
Glue and Sizing	38	--	--	--	--	--
Ore	--	--	--	10	--	--
Tallow	--	14	--	--	--	--
Waste, Sweepings, etc.	329	52	-81.2	85	37.1	-74.2
Yarn	323	552	70.9	553	0.2	71.2
Asphalt and Products	--	40	--	--	--	--
Building Material, Miscellaneous	382	222	-41.9	203	-8.6	-46.9
Coal Tar, Pitch, etc.	--	111	--	--	--	--
Lumber and Products	56	292	421.4	97	-66.8	73.2
Stone and Products	36	40	11.1	91	127.5	152.8
Aluminum and Products	--	16	--	--	--	--
Copper and Brass Products	214	317	48.1	799	152.1	273.4
Lead and Products	--	--	--	22	--	--
<u>Total Commercial and Industrial Group</u>	<u>10,080</u>	<u>11,081</u>	<u>9.9</u>	<u>7,062</u>	<u>-36.3</u>	<u>-30.0</u>
<u>Grand Total</u>	<u>13,143</u>	<u>13,989</u>	<u>6.4</u>	<u>9,568</u>	<u>-31.6</u>	<u>-27.2</u>

1.94
H45L
Commodity Survey Series
Vermont
September 1926

United States Department of Agriculture
Agricultural Adjustment Administration
Division of Information

Carlot railway shipments of manufactured and commercial commodities originating in the State of Vermont and delivered to 32 predominantly agricultural states west of the Mississippi and south of the Potomac and Ohio Rivers, increased 103.3 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1" the succeeding 12-month period ended June 30, 1934, the first full year after the beginning of these measures, was designated as "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from Vermont together with the changes from year to year, were as follows: In year 1 the total was 11,417,000 pounds; in year 2 it was 16,359,000 pounds or a gain of 43.3 percent; in year 3 it was 23,210,000 pounds, a gain of 41.9 percent over the year 2 poundage and of 103.3 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Vermont and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in Vermont and shipped by the carload

to the agricultural areas were classified in this study, according to their principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Carlot shipments of goods from Vermont in the general group showed the greatest gain among the four groups, in the 2-year period, with an advance of 194.2 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 1,248,000 pounds in year 1, to 1,887,000 pounds in year 2, and to 3,671,000 pounds in year 3. Shipments in year 2 gained 51.2 percent over those in year 1, and shipments in year 3 gained 94.5 percent over those in year 2.

The greatest percentage gain in any single item was in asbestos and products of which 3,732,000 pounds was forwarded in carlot shipments from Vermont to agricultural areas in year 3 as compared with 120,000 pounds in year 1, and 61,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 3,010.0 percent, and 6,018.0 percent as compared with year 2.

The greatest total weight of any single item was of stone and stone products. Carlot shipments of this item weighed 4,578,000 pounds more in year 3 than in year 1. There were 7,581,000 pounds shipped in year 1 as compared with 12,159,000 pounds in year 3, a percentage gain of 60.4 percent, and 11,551,000 pounds in year 2.

None of the four groups showed a decrease in total poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other commodities.

As might be expected, shipments of commodities in the industrial and commercial group were not far behind the general group in gaining 92.8 percent in year 3 as compared with year 1. This group showed a gain of 40.9 percent in year 2 over year 1, and a gain of 36.8 percent in year 3 as compared with year 2. Weights of shipments amounted to 9,697,000 pounds in year 1, to 13,661,000 pounds in year 2, and to 18,692,000 pounds in year 3.

The domestic and personal group containing 6 commodity items, showed increases of 79.4 percent in year 3 as compared with year 1, of 24.2 percent in year 3 over year 2, and 44.5 percent in year 2 over year 1. Weights of shipments in this group amounted to 472,000 pounds in year 1, to 682,000 pounds in year 2, and to 847,000 pounds in year 3.

Since carlot shipments of commodities in the agricultural group occurred only in year 2 and not in year 1 or year 3, comparisons between those years are impossible.

Comparisons for all commodities in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three covered by the study, it is impracticable to calculate percentage increases or decreases, for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

VERMONT

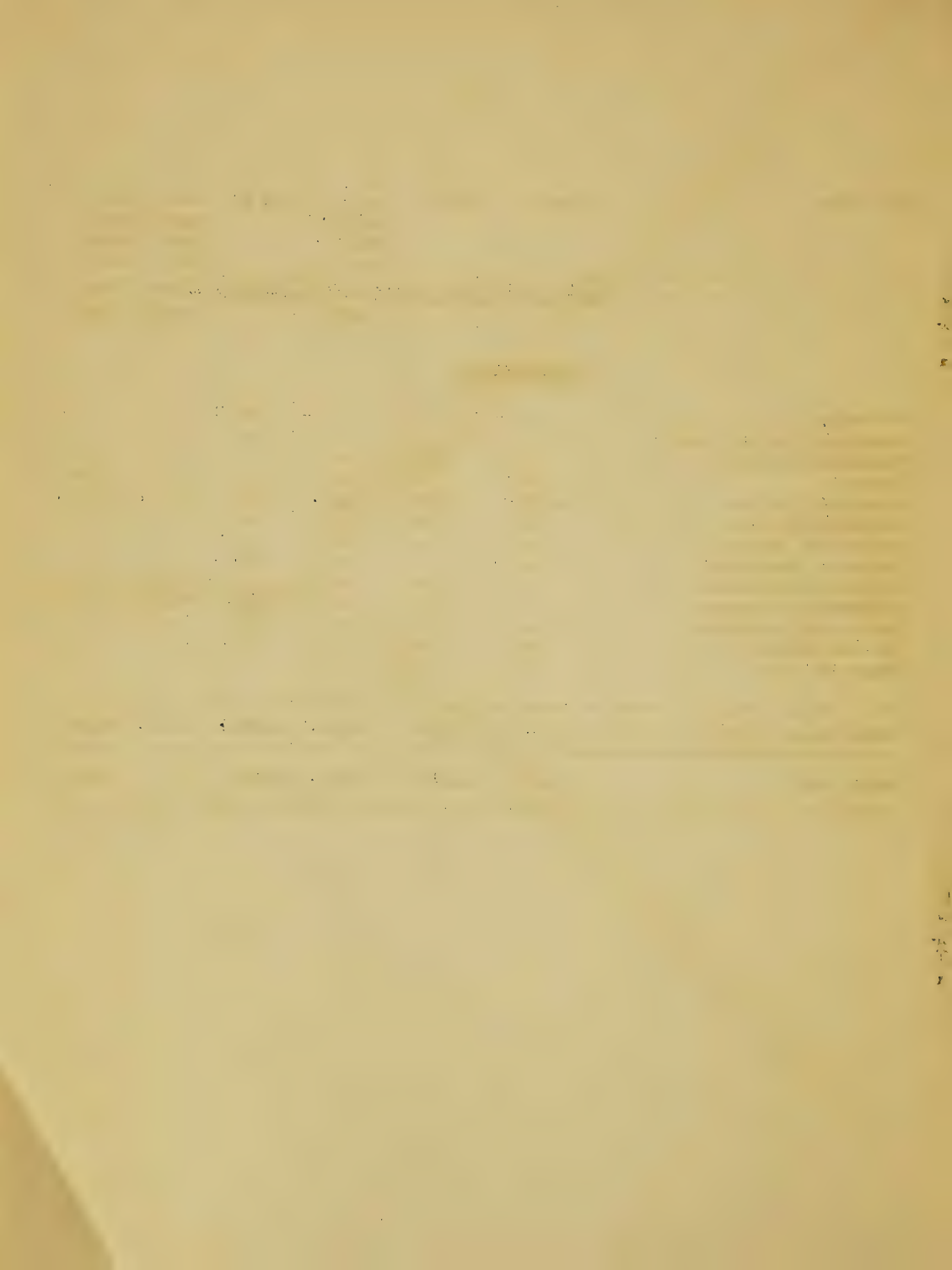
Carlot shipments of manufactured and industrial commodities from Vermont to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	--	105	--	--	--	--
Wagons and Wheels	--	24	--	--	--	--
Total Agricultural Group	--	129	--	--	--	--
<u>DOMESTIC AND PERSONAL GROUP</u>						
Chairs	--	96	--	--	--	--
Furniture, Mixed	--	12	--	100	733.3	--
Cotton Piece Goods and Batting	--	--	--	180	--	--
Woolens	--	34	--	364	970.6	--
Arms and Ammunition	--	--	--	43	--	--
Toilet Preparations	472	540	14.4	160	-70.4	-66.1
Total Domestic and Personal group	472	682	44.5	847	24.2	79.4
<u>INDUSTRIAL AND COMMERCIAL GROUP</u>						
Steel and Iron Products	369	64	-82.7	66	3.1	-82.1

(Continued)

Commodity	Year 1	Year 2	Gain Year 2: Over Year 1	Year 3	Gain Year 3: Over Year 2	Gain Year 3: Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>INDUSTRIAL AND COMMERCIAL GROUP (Con'td)</u>						
Machinery, Commercial and Industrial	156	40	-74.4	240	500.0	53.8
Machinery Parts	79	304	284.8	24	-92.1	-69.6
Scales and Parts	192	639	232.8	722	13.0	276.0
Burlap and Bagging	27	150	455.6	322	114.7	1,092.6
Cloth	--	97	--	1,149	1,084.5	--
Felt and Carpeting	--	84	--	--	--	--
Waste, Sweepings, etc.	--	--	--	27	--	--
Asbestos and Products	120	61	-49.2	3,732	6,018.0	3,010.0
Asphalt and Products	649	420	-35.3	14	-96.7	-97.9
Building Material, Miscell- aneous	--	10	--	--	--	--
Cement and Concrete Products	--	55	--	16	-70.9	--
Lumber and Products	524	174	-66.8	221	27.0	-57.8
Sand	--	12	--	--	--	--
Stone and Products	7,581	11,551	52.4	12,159	5.3	60.4
Total Industrial and Commercial Group	9,697	13,661	40.9	18,692	36.8	92.8

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>GENERAL GROUP</u>						
Batteries	--	--	--	42	--	--
Gasoline, Oil and other Petroleum Products	--	117	--	--	--	--
Trucks	10	--	--	--	--	--
Paper and Products	1,238	1,433	15.8	1,461	2.0	18.0
Hospital Supplies	--	62	--	--	--	--
Organs and Equipment	--	--	--	14	--	--
Drugs and Chemicals	--	--	--	343	--	--
Glass and Glassware	--	20	--	--	--	--
Millwork and Cooperage	--	167	--	1,291	673.1	--
Paints and Varnishes	--	--	--	470	--	--
Tin and Products	--	--	--	50	--	--
Twine and Rope	--	88	--	--	--	--
Total General Group	1,248	1,887	51.2	3,671	94.5	194.2
Grand Total	11,417	16,359	43.3	23,210	41.9	103.3



Carlot railway shipments of manufactured and commercial commodities originating in the State of Wisconsin and delivered to 32 predominantly agricultural States west of the Mississippi and south of the Potomac and Ohio Rivers, increased 79.6 percent in weight in the first two years after the Federal Government inaugurated agricultural recovery measures in 1933.

Wisconsin carlot shipments of goods used principally by farmers, including farm implements, tractors, and brooders and incubators, increased 529.7 percent in the year ended June 30, 1935, as compared with the year ended June 30, 1933.

This fact was developed in a survey of more than half a million original railway freight waybills and waybill abstracts in the offices of 16 principal railroads delivering the shipments to the agricultural states.

In this study the 12-month period ended June 30, 1933, immediately preceding the operation of the agricultural adjustment and other programs, was designated as "year 1"; the succeeding 12-month period ended June 30, 1934, the first full year after beginning of these measures, was designated as "year 2"; and the 12 months ended June 30, 1935, as "year 3."

Total weight of carlot shipments from Wisconsin, together with the changes from year to year, were as follows: In year 1 the total was 895,127,000 pounds; in year 2 it was 1,430,065,000 pounds or a gain of 59.8 percent; in year 3 it was 1,607,963,000 pounds, a gain of 12.4 percent over the year 2 poundage and of 79.6 percent over the year 1 figure.

Carlot shipments of manufactured and industrial goods from 16 highly industrialized states east of the Mississippi and north of the Potomac and Ohio Rivers, to agricultural areas, over the railroads studied, gained 60.1 percent in year 3 as compared to year 1. The gain in year 2 over year 1 was 38.7 percent, and that in year 3 compared to year 2 was 15.4 percent.

National farm cash income amounted to \$4,377,000,000 for the year 1932; to \$5,409,000,000 for 1933; to \$6,227,000,000 for 1934; and to \$7,201,000,000 for 1935. The shipments of goods produced in Wisconsin and shipped to agricultural areas have increased along with the increase in farm income.

Changes were not uniform, of course, for all commodities. In addition to the increased purchasing power of farmers, and the exercise of that purchasing power, there were other factors not apparent through examination of freight waybills alone. There were changes in the channels of distribution and methods of transportation, shifts in trade territory, and other influences. However, carlot shipments represent 95 percent of the weight of the shipments of these commodities between regions by the railroads handling them, and the indications of these figures are regarded as accurate both as to aggregate tonnages and the trends which they display.

The hundreds of articles produced in Wisconsin and shipped by the carload to the agricultural areas were classified in this study, according to their prin-

principal uses, into four main groups each containing smaller groupings, as follows: (1) The "agricultural group" made up of commodities used principally by farmers in their homes and on their farms, (2) the "domestic and personal" group, (3) the "industrial and commercial" group including goods used mostly in industry and commerce, and (4) the "general" group.

Shipments of goods from Wisconsin in the agricultural group showed the greatest gain among the four groups, in the 2-year period, with an advance of 529.7 percent in poundage in year 3 as compared with that of year 1. Shipments in this group amounted to 9,156,000 pounds in year 1, to 29,472,000 pounds in year 2, and to 57,655,000 pounds in year 3. Shipments in year 2 gained 221.9 percent over those in year 1, and shipments in year 3 gained 95.6 percent over those in year 2.

Shipments of tractors and parts, included in the agricultural group, advanced 1,367.1 percent in weight in year 3 over year 1, after an advance of 439.9 percent in year 2 over year 1. Weight of these shipments in year 1 amounted to 1,980,000 pounds, in year 2 to 10,691,000 pounds, and in year 3 to 29,048,000 pounds. Weights of shipments of brooders and incubators rose 771.1 percent in year 3 as compared with year 1, and weights of shipment of farm implements and machinery gained 445.1 percent in year 3 over year 1. Small decreases occurred in carlot shipments of wire and fencing, beehives, and wagons and wheels.

The greatest percentage gain in any single item in any group was in ore, of which 3,103,000 pounds was shipped in year 3 as compared with 72,000 pounds in year 1 and 50,000 pounds in year 2. The percentage gain in poundage in year 3 as compared with year 1 was 4,209.7 percent, after a gain of 6,106 percent in year 2 over year 1.

The greatest increase in weight for any one item was in automobiles. Carlot shipments from Wisconsin to agricultural areas, weighed 103,864,000 pounds more in year 3 than in year 1, an increase of 1,060.4 percent. In year 1 the weight of these shipments was 9,795,000 pounds, in year 2 it was 56,446,000 pounds, and in year 3 it was 113,659,000 pounds.

None of the four groups showed a decrease in poundage in year 3 as compared with year 1. Certain commodities did show such decreases, which were more than offset by gains in other items.

Shipments in the domestic and personal group gained 114.9 percent in year 3 as compared with year 1. This group showed a gain of 93.6 percent in year 2 over year 1, and a gain of 11 percent in year 3 as compared with year 2. Weights of shipments amounted to 184,067,000 pounds in year 1, to 356,336,000 pounds in year 2, and to 395,613,000 pounds in year 3.

In this group the shipments of cotton piece goods and batting showed the greatest percentage gain in the two-year period, totalling 3,524,000 pounds in year 3 as compared with 355,000 pounds in year 1, a gain of 892.7 percent.

The general group containing 25 commodity items showed increases of 68.3 percent in year 3 as compared with year 1, of 18.9 percent in year 3 over year 2, and 41.6 percent in year 2 over year 1. Weight of shipments in this group amounted

to 543,200,000 pounds in year 1, to 1,430,065,000 pounds in year 2, and to 1,607,963,000 pounds in year 3.

In the general group, carlot shipments of trucks increased in weight 507.9 percent in year 3 over year 1, after advancing 273.7 percent in year 2 over year 1. Weight of shipments in year 1 was 567,000 pounds, in year 2 was 2,119,000 pounds, and in year 3 was 3,447,000 pounds.

The industrial and commercial group, with 50 commodity items, showed a gain of 51.4 percent in year 3 over year 1, a decrease of 12.7 percent in year 3 from year 2, and an increase in year 2 over year 1, of 73.4 percent. Weight of shipments in this group amounted to 158,704,000 pounds in year 1, to 275,163,000 pounds in year 2, and to 240,223,000 pounds in year 3.

Large percentage gains in year 3 as compared with year 1 were shown in shipments of cables, vegetable oils, tanners' extracts and oils, tobacco, asbestos and its products, and insulation. There were percentage decreases in such items as zinc, lead, copper, sand, cotton, elevators, and refrigerating machinery.

Comparisons for all commodity items in all groups are included in the following tabulation. It will be apparent that when shipments occurred in only one or two years of the three years studied, it is impracticable to calculate percentage increases or decreases for both year 2 and year 3.

The shipments on which waybills were studied originated on more than 125 railroad lines in the industrial area and were delivered in the agricultural States by the following lines: Atchison, Topeka, & Santa Fe; Central of Georgia; Chicago, Burlington, & Quincy; Chicago, Milwaukee, St. Paul, & Pacific; Chicago & North Western; Chicago, Rock Island, & Pacific; Great Northern; Illinois Central; Louisville & Nashville; Missouri Pacific; Northern Pacific; St. Louis & San Francisco; Southern; Southern Pacific; Texas & Pacific; and the Union Pacific.

- 4 -
COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

WISCONSIN

Carlot shipments of manufactured and industrial commodities from Wisconsin to 32 predominantly agricultural states west of the Mississippi and south of the Ohio and Potomac Rivers. Also percentage changes in such shipments in year 1, ended June 30, 1933; year 2, ended June 30, 1934; and year 3, ended June 30, 1935.

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>AGRICULTURAL GROUP</u>						
Farm Implements and Machinery	4,821	15,636	224.3	26,277	68.1	445.1
Tractors and Parts	1,980	10,691	439.9	29,048	171.7	1367.1
Beehives	131	76	-42.0	126	65.8	-3.8
Brooders and Incubators	35	40	14.3	307	667.5	777.1
Steel Fence Posts	---	261	---	20	-92.3	---
Harness and Saddlery	---	116	---	92	-20.7	---
Wagons and Wheels	832	719	-13.6	544	-24.3	-34.6
Wire and Fencing	1,357	1,933	42.4	1,241	-35.8	-8.6
Total Agricultural Group	9,156	29,472	221.9	57,655	95.6	529.7
<u>DOMESTIC AND PERSONAL GROUP</u>						
Bookcases and Desks	---	12	---	12	0.0	---
Cabinets and Kitchen Cabinets	57	53	-7.0	---	---	---
Chairs	427	784	83.6	613	-21.8	43.6
Furniture, Mixed	16,174	18,307	13.2	17,236	-5.9	6.6
Radios and Parts	25	---	---	95	---	280.0
Refrigerators	1,207	1,813	50.2	1,999	10.3	65.6
Sewing Machines	---	100	---	---	---	---
Stoves and Heaters	2,646	5,490	107.5	7,322	33.4	176.7
Tables	58	51	-12.1	18	-64.7	-69.0
Bedding	109	205	88.1	77	-62.4	-29.4
Carpets and Linoleum	740	663	-10.4	267	-59.7	-63.9
Cotton Piece Goods and Batting	355	1,549	336.3	3,524	127.5	892.7
Dishes	---	182	---	47	-74.2	---
Electrical Appliances	244	174	-28.7	290	66.7	18.9
Furnaces	395	1,224	209.9	1,441	17.7	264.8
Matches	5,943	11,547	94.3	7,160	-38.0	20.8
Plumbing Fixtures and Fittings	6,508	5,775	-11.3	9,849	70.5	51.8
Shoe Polish	---	44	---	101	129.5	---

COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

WISCONSIN

CONTINUED

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>DOMESTIC AND PERSONAL GROUP (CONTINUED)</u>						
Woolens	45	27	-40.0	36	33.3	-20.0
Clothing	47	---	---	30	---	-36.2
Cereals	1,703	1,445	-15.2	2,104	45.6	23.5
Cereal Beverages	12,560	8,525	-32.1	4,173	-51.1	-66.8
Confectionery	760	472	-37.9	519	10.0	-31.7
Gelatin	---	56	---	41	-26.8	---
Sauces and Extracts	1,082	902	-16.6	15.4	-82.9	-85.8
Beer	115,550	278,074	140.7	323,787	16.4	180.2
Fruit and Vegetable Juices	40	55	37.5	104	89.1	160.0
Ginger Ale and other Beverages	15,586	17,138	10.0	12,738	-25.7	-18.3
Liquor	1,009	854	-15.4	275	-67.8	-72.8
Arms and Ammunition	51	---	---	28	---	-45.1
Toilet Preparations	61	49	-19.7	32	-34.7	-47.6
Toys	439	623	41.9	1,059	70.0	141.2
Undertaker's Supplies	246	143	-41.9	482	337.1	95.9
Total Domestic and Personal Group	184,067	356,336	93.6	395,613	11.0	114.9
<u>INDUSTRIAL AND COMMERCIAL GROUP</u>						
Steel and Iron Products	29,303	99,110	236.2	46,040	-53.6	57.1
Air Filters and Blowers	---	11	---	51	363.6	---
Boilers, Tubes, and parts	1,081	3,144	190.8	1,810	-42.4	67.4
Cables	174	253	45.4	1,371	441.9	687.9
Elevators	43	---	---	25	---	-41.9
Engines (gas, steam, etc.)	3,755	13,734	265.8	8,285	-39.7	120.6
Machinery, Commercial and Industrial	7,937	16,162	103.6	17,715	9.6	123.2
Machinery, Electrical	2,751	2,027	-26.3	2,879	42.0	4.7
Machinery, Refrigerating	471	765	62.4	379	-50.5	-19.5
Machinery, Road	1,805	2,325	28.8	5,513	137.1	205.4
Machinery Parts	2,777	3,735	34.5	2,485	-33.5	-10.5
Tools and Equipment	713	488	-31.6	2,441	400.2	242.4
Canvas Baskets	---	---	---	30	---	---
Fire Apparatus	12	---	---	25	---	108.3
Furniture, metal	689	948	37.6	1,794	89.2	160.4
Store Fixtures	---	189	---	164	-13.2	---

U S
COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

WISCONSIN

CONTINUED

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
INDUSTRIAL AND COMMERCIAL (CONTINUED)						
Theatre Chairs	43	104	141.9	179	72.1	316.3
Burlap and Bagging	1,586	1,507	-5.0	576	-61.8	-63.7
Bottle Caps	--	31	--	--	--	--
Cloth	1,251	1,278	2.2	1,010	-21.0	-19.3
Clothing Loops	64	287	348.4	--	--	--
Cork	31	30	-3.2	--	--	--
Cotton	518	--	--	65	--	-87.5
Cotton Factory Supplies	221	681	208.1	--	--	--
Felt and Carpeting	830	580	-30.1	877	51.2	5.7
Glue and Sizing	887	2,016	127.3	1,537	-23.8	73.3
Hides and Pelts	525	517	-1.5	1,563	202.3	197.7
Malt and Malt Syrup	7,043	17,692	151.2	23,016	30.1	226.8
Oils, vegetable	63	32	-49.2	1,094	3318.8	1536.5
Ore	72	50	-30.6	3,103	6106.0	4209.7
Tallow	57	--	--	1,589	--	2687.7
Tanners Extracts and Oils	11	45	309.1	414	820.0	3663.6
Tobacco	126	97	-23.0	1,270	1209.3	907.9
Waste, Sweepings, etc.	333	225	-32.4	328	45.8	-1.5
Yarn	78	11	-85.9	--	--	--
Asbestos and Products	50	195	290.0	308	57.9	516.0
Asphalt and Products	997	1,160	16.3	2,505	115.9	151.3
Bricks	2,981	2,408	-19.2	2,963	23.0	-0.6
Building Material	1,035	2,427	134.5	2,667	9.9	157.7
Cement and Concrete Products	586	519	-11.4	1,120	115.8	91.1
Coal tar, Pitch, etc.	12,446	6,723	-46.0	3,805	-43.4	-69.4
Insulation	201	227	12.9	889	291.6	342.3
Lumber and Products	39,631	64,686	63.2	67,557	4.4	70.5
Sand	15,374	9,534	-38.0	8,920	-6.5	-42.0
Shingles	373	772	107.0	496	-35.8	33.0
Stone Products	11,018	14,664	33.1	18,547	26.5	68.3
Aluminum and Products	1,215	1,866	53.6	1,572	-15.8	29.4
Copper and Brass Products	1,161	1,013	-12.8	936	-7.6	-19.4
Lead and Products	266	125	-53.0	141	12.8	-47.0
Zinc and Products	6,120	770	-87.4	169	-78.1	-97.2
Total Industrial and Commercial Group	158,704	275,163	73.4	240,223	-12.7	51.4

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COMMODITY MOVEMENT SURVEY

BY COMMODITY GROUPS

WISCONSIN

CONTINUED

Commodity	Year 1	Year 2	Gain Year 2 Over Year 1	Year 3	Gain Year 3 Over Year 2	Gain Year 3 Over Year 1
	(1,000 lbs)	(1,000 lbs)	(Per- cent)	(1,000 lbs)	(Per- cent)	(Per- cent)
<u>GENERAL GROUP</u>						
Alcohol and Anti-Freeze	377	195	-48.3	270	38.5	-28.4
Automobiles	9,795	56,446	476.3	113,659	101.4	1060.4
Auto Parts and Accessories	25,088	40,206	60.3	44,645	11.0	78.0
Batteries	6,896	10,734	55.7	15,606	45.4	126.3
Bicycles, Motorcycles, etc.	268	253	-5.6	228	-9.9	-14.9
Gasoline, oil, and other						
Petroleum Products	244,699	366,115	49.6	456,075	24.6	86.4
Trucks	567	2,119	273.7	3,447	62.7	507.9
Coke	30,642	43,154	40.8	35,520	-17.7	15.9
Magazines, Books, Catalogues, and other advertising material	1,107	663	-40.1	394	-40.6	-64.4
Paper and Products	182,628	206,844	13.3	201,463	-2.6	10.3
Hospital Supplies	---	---	---	16	---	---
School Furniture and Supplies	52	22	-57.7	---	---	---
Clay and Products	67	624	831.3	261	-58.2	289.6
Drugs and Chemicals	9,535	9,457	-0.8	8,930	-5.6	-6.4
Explosives	321	389	21.2	794	104.1	147.4
Glass and Glassware	1,324	817	-38.3	910	11.4	-31.3
Ink	---	---	---	129	---	---
Leather and Leather Goods	658	294	-55.3	501	70.4	-23.9
Millwork and Cooperage	9,125	12,306	34.9	11,345	-7.8	24.3
Nails	871	437	-49.8	276	-36.9	-68.3
Paints and Varnishes	4,946	6,899	39.5	9,899	43.5	100.1
Rubber and Products	214	286	33.6	607	112.2	183.6
Soap	2,252	1,779	-21.0	743	-58.2	-67.0
Tin and Products	8,660	8,269	-4.5	7,579	-8.4	-12.5
Twine and Rope	3,108	786	-74.7	1,175	49.5	-62.2
Total General Group	543,200	769,094	41.6	914,472	18.9	68.3
Grand Total	895,127	1,430,065	59.8	1,607,963	12.4	79.6

